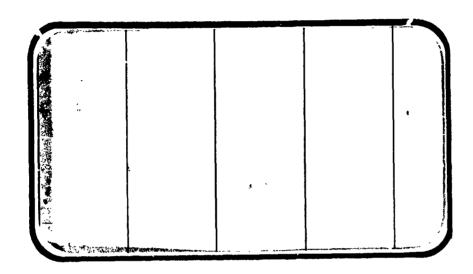


# NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA CR-

141833



(NASA-CR-141833) AN INVESTIGATION IN THE MSFC TWT TO DETERMINE SPOILER EFFECTS ON WING LOADS AND ELEVEN HINGE MOMENTS UTILIZING 0.004-SCAIE MODELS (77-0 AND 74-OTS) OF THE SHUTTLE VEHICLE 5 (Chrysler

N76-16136

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services



DMS-DR-2253 NASA CR-141,833

AN INVESTIGATION IN THE MSFC TWT TO DETERMINE
SPOILER EFFECTS ON WING LOADS AND ELEVON
HINGE MOMENTS UTILIZING 0.004-SCALE
MODELS (77-0 AND 74-OTS) OF THE SHUTTLE
VEHICLE 5 CONFIGURATION (IA125)

Ьу

E. C. Allen Rockwell International

Prepared under NASA Contract Number NAS9-1:247

bу

Data Management Services Chrysler Corporation Space Division New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

#### WIND TUNNEL TEST SPECIFICS:

Test Number:

MSFC TWT 622

NASA Series Number:

IA125

Occupancy Hours:

123

Date:

April 28 - May 22, 1975

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Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics. AN INVESTIGATION IN THE MSFC TWT TO DETERMINE SPOILER
EFFECTS ON WING LOADS AND ELEVON HINGE MOMENTS
UTILIZING 0.004-SCALE MODELS (77-0 AND 74-OTS) OF THE
SHUTTLE VEHICLE 5 CONFIGURATION (IA125)

by E. C. Allen, Rockwell International

#### **ABSTRACT**

This report presents information for wind tunnel tests (IA125) of a 0.004-scale orbiter, external tank, and sold rocket motor integrated vehicle model (77-0 and 74-0TS) in the MSFC Trisonic Wind Tunnel.

These tests were conducted in support of MCR's 1344 and 1346. Data from these tests provide spoiler effects on wing bending/torsion and elevon hinge moments, elevon effectiveness data and the influence of solid plumes from Mach numbers of 0.6 through 2.74 at angles of attack and sideslip from -10 through 10 degrees.

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PAGE	1-35	36-112	113-189	190-266	267-343	344-420	421-497
SCHEDULE OF COEFFICIENTS PLOTTED	(A)	(B)	(B)	(B)	(B)	(B)	(B)
CONDITIONS VARYING	МАСН	АГЪНА	ALPHA	ALPHA	ALPHA	ALPHA	ALPHA
TITLE	EFFECT OF ANGLE OF ATTACK AND SIDESLIP ON CHARACTERISTICS	ELEVON EFFECTIVENESS FOR MACH = 0.6	ELEVON EFFECTIVENESS FOR MACH = 0.9	ELEVON EFFECTIVENESS FOR MACH = 1.05	ELEVON EFFECTIVENESS FOR MACH = 1.20	ELEVON EFFECTIVENESS FOR MACH = 1.46	ELEVON EFFECTIVENESS FOR MACH = 2.74

3

1.44

# SCHEDULE OF COEFFICIENTS PLOTTED

- (A) CN, CLM, CA, CAF, CY, CYN, CBL versus ALPHA versus BETA
- (B) DCN, DCIM, DCA, DCAF, DCYN, DCBL versus ELV-OL versus ELV-IL

# NOMENCLATURE

SYMBOL	PLOT SYMBOL	DEFINITION
Λ <sub>be</sub>	p southern a since	tank base area, in. <sup>2</sup>
Λ <sub>bo</sub>		orbiter base area, in. 2
$\Lambda_{\mathbf{b_s}}$		SRB base area, in. <sup>2</sup>
b <sub>ref</sub>	BREF	reference span, in.
<del>c</del>		mean aerodynamic chord, in.
$\overline{c}_{e}$		elevon reference length
c.g.		center of gravity
$CAB_{\mathrm{E}}$	CABE	tank base axial force coefficient
CABO	САВО	orbiter base axial force component coefficient
CABS	CABS	SRB base axial force coefficient
$^{\mathrm{C}}A^{f}$	CAF	forebody axial force coefficient
$^{\mathrm{C}}A_{\mathrm{T}}$	CA	total axial force coefficient
$^{\mathrm{C}}{}^{\mathrm{B}}{}^{\mathrm{W}}$	CBW	wing root bending moment coefficient
$c_{ m h_{el}}^{"}$	CHET	inboard elevon hinge moment coefficient
$c_{\mathbf{h_{e_o}}}$	CHEO	outboard elevon hinge moment coefficient
C <sub>V.</sub>	CB1.	rolling moment coefficient in body axis system
C <sub>m</sub>	CLM	pitching moment coefficient
$c^{1^{mBE}}$	CLMBF	pitching moment coefficient due to body flap
C <sub>mU</sub>	CLMU	uncorrected pitching moment coefficient
$HM_{\mathbf{e}_{\mathbf{O}}}$		outboard elevon hinge moment
име ј		inboard elevon hinge moment

D

# NOMENCLATURE (Continued)

SYMBOL	PLOT SYMBOL	DEFINITION
$c_n$	CYN	yawing moment coefficient in the body axis system
$c_{N}$	CN	normal force coefficient in the body axis system
$c_{N_{f W}}$	CNW	wing normal force coefficient
cn <sub>BF</sub>	CNBF	body flap normal force coefficient
CNB <sub>()</sub>	CNBO	normal force component coefficient of orbiter base drag
$c_{N_U}$	CNU	uncorrected normal force coefficient
срв <sub>ВЕ</sub>	CPBBF	body flap base pressure coefficient
СРВ <sub>Е</sub>	СРВЕ	tank base pressure coefficient
CPB <sub>O</sub>	СРВО	orbiter base pressure coefficient
CPB <sub>S</sub>	CPBS	SRB base pressure coefficient
$c_{\gamma}$	СУ	side force coefficient (body or stability axis system)
$c_{T_{f W}}$	CTW	wing torsion moment coefficient
$^{\wedge C} \Lambda_{f}$	DCAF	incremental forebody axial force coefficient due to elevon deflection
$\wedge \mathbf{c}_{\mathbf{A_T}}$	DCA	incremental total axial force coefficient due to elevon deflection
$\wedge \mathbf{C}_{oldsymbol{arphi}}$	DCBL	incremental rolling moment coefficient due to elevon deflection
$\wedge \mathbf{c_m}$	DCLM	incremental pitching moment coefficient due to elevon deflection
$\wedge c_n$	DCYN	incremental yawing moment coefficient due to elevon deflection
16		average orbiter base slant angle

# NOMENCLATURE (Continued)

SYMBOL	PLOT SYMBOL	DEFINITION
$\wedge c_{\mathbf{N}}$	DCN	incremental normal force coefficient due to elevon deflection
$\wedge c_{\boldsymbol{Y}}$	DCY	incremental side force coefficient due to elevon deflection
$\mathbf{F}_{\Lambda}$		axial force, 1b.
$\mathbf{F}_{\mathbf{N}}$		normal force, 1b.
F <sub>NW</sub>		wing normal force, 1b.
$\mathbf{F}_{\mathbf{Y}}$		side force, Ib.
L O	ORBINC	orbiter/ET incidence angle
<sup>g</sup> ref	LREF	reference length, in.
М	MACH	Mach Number
MRP	MRP	moment reference point
	XMRP	moment reference point on x-axis
	YMRP	moment reference point on y-axis
	ZMRP	moment reference point on z-axis
$M_B_W$		wing bending moment, in1b.
$^{M}\mathrm{T}_{W}$		wing torsion moment, in1b.
M <sub>x</sub>		rolling moment in the body axis system, in-1b.
$M_{\mathbf{y}}$		pitching moment in the body (or stability) axis system, inlb.
M <sub>2</sub>		yawing moment in the body axis system, inlb.
δ <sub>eref</sub>		elevon reference area

1

### NOMENCLATURE (Continued)

SYMBOL	PLOT SYMBOL	DEFINITION
P		static pressure, ps.
$P_{\mathbf{b_{bf}}}$		body flap base preseure
$^{\mathrm{p}}{}^{\mathrm{b}}{}_{\mathrm{e}}$		tank base pressure
$P_{\mathbf{b_O}}$		orbiter base pressure
$^{\mathrm{P}}\mathfrak{b}_{\mathtt{S}}$		SRB base pressure
Pt		total pressure, psi
q	Q(PSI)	dynamic pressure, psi
RN/L	RN/L	Reynolds number per unit length, million/ft.
Sref	REFS	reference area, in. <sup>2</sup>
Sbfref	BFREFS	body flap reference area, in. <sup>2</sup>
Т	temperature	temperature, °F
$x_o$		orbiter longitudinal station
Yo		orbiter lateral station
a	VTBHV	angle-of-attack, angle between the projection of the wind Xw-axis on the body X, Z-plane and the body X-axis; deg.
β	BETA	sideslip angle, angle between the wind Xw-axis and the projection of this axis on the body X, Z-plane; deg.
δ	•	control su race deflection angle, deg.
$\delta_{\mathbf{a}}$	AILRON	aileron - left aileron trailing edge down
$z_{o}$		orbiter vertical station

# NOMENCLATURE - (Continued)

SYMBOL	PLOT SYMBOL	DEFINITION
δ <sub>BF</sub>	BDFLAP	body flap deflection angle
$^{\delta}\mathrm{e}_{1\mathrm{L}}$	ELV-IL	left inboard elevon deflection angle
$^{\delta}\mathrm{e_{OL}}$	ELV-OL	left outboard elevon deflection angle
$^{\delta}e_{1R}$	ELV-1R	right inboard elevon deflection angle
$\delta_{ extbf{eor}}$	ELV-OR	right outboard elevon deflection angle
$\delta_{SB}$	SPDBRK	speed brake
$\delta_{R}$	RUDDER	rudder - trailing edge left
<sup>δ</sup> F/2	SPOILR	elevon flipper door deflection

# SUBSCRIPTS

Symbol Symbol	Definition
$\mathfrak{b}_{\mathbf{e}}$	tank base
pl	body flap
b <sub>o</sub>	orbiter base
$b_{S}$	SRB base
t	total conditions
W	wind
ref	reference conditions
$\omega$	free stream conditions

#### INTRODUCTION

This report presents data obtained in an investigation of the 0.004 scale model of the Shuttle Vehicle 5 configuration. The primary objective of the test was to evaluate mid-span elevon flipper door (used as a spoiler) effects on wing bending/torsion and elevon hinge moments during the launch phase of flight. A second objective of the test was to obtain elevon effectiveness data in expanded matrix form for elevon and wing load relief studies in support of MCR's 1344 and 1346. Additional data were obtained on the first and second stage configurations at Mach 4.48 with and without solid simulated SSME plumes at angles-of-attack from zero to 20 degrees.

For the wing loads portion of the test, the tank of the mated vehicle model was mounted on the sting-balance combination. The right wing is balance mounted to the orbiter and provides wing normal force and bending and torsion moments. For that portion of the test which provided plume data and elevon hinge moments and elevon effectiveness data, the orbiter of the mated vehicle model was mounted on the sting-balance combination. The in-board and out-board elevens of the left wing were balance mounted to provide hinge moments.

#### MODEL DESCRIPTION

The model geometry (0.004-meale) is shown in Figure 2. Two orbiters were tested; one is a stycast casting and the other is made of stainless steel. The ET and SRB's are made of stainless steel.

The external tank of the mated vehicle model was mounted on the TWT 239 balance while wing loads were being measured. For the remainder of the test, the orbiter was mounted on the TWT 239 balance. In both cases, the balance was supported by the number 3 balance adapter and sting. The orbiter was mounted to the tank at three points simulating the forward attach point and the two main fuel lines for the rear attach points. The SRB's were attached to the ET. The orbiter model had positionable split elevons, rudders, speed brakes, and body flaps. For this test only the left wing inboard and outboard elevons were deflected. Semi-span elevon flipper doors located at a mid-span position were tested at 20 and 40 degree deflection angles.

Solid SSME plumes were fabricated and tested at M=4.48. The plume table of coordinates are listed in Table IV and an installation photograph is shown in Figure 3.

The right wing of the stycast orbiter model was balance mounted to the body and measured wing normal force, root bending and torsion moments. The elevon for the left wing of the steel orbiter model was split and the inboard and outboard sections were both instrumented to provide hinge moments.

The model was fabricated in conformance with the lines drawings as listed below:

Orbiter	VC70-000002
Forward Body and Cabin	VL70-000202C
Mid-body-wing/glove fairing	VL70-000200B
Aft Body	VI.70-000203
Vertical tail	VL70-000146A
Wing tip	VL70-006092
OMS/RCS Pods	VL70-008410,008401
Tank	VC78-000002B
SRB	VC77-000002B

#### CONFIGURATIONS INVESTIGATED

The following nomenclature has been used to designate model parts.

Model dimensional data sheets defining the various configuration

designators are presented in Table III.

Component	<u>Definition</u>
<u>Orbiter</u>	
B62	fuselage - per VL70-000200B, 202C, and 203
C12	canopy - per VL70-000202C
E62	elevon, 6" gap - per VL70-000200, 00608, 006092
F10	body flap - per VL70-000200B
M16	OMS pods - per VL70-008410, 008401
N28	OMS nozzle - per VL70-008457
R5	rudder - per VL70-000146A
V8	vertical - per VL70-000146A
W127	wing - per VL70-000200B
z <sub>14</sub>	Elevon flipper door
<u>Tank</u>	
ΛТ16	attach structure, front ORB/ET - per SK-H-4011
AT17	attach structure, left rear ORB/ET - per VL78-000062B
ΛΤ18	attach structure, right rear ORB/ET - per VL78-000062B

Component	Definition
Tank (Cont'd)	
FL5	LOX feed line ET/ORB - per VL78-000062A
FL6	LH <sub>2</sub> pressure line ET/ORB - per VL78-000062A
ΛΤ68	forward ORB/ET attach (i <sub>o</sub> =0°) - per LMSC dwg. R80084
АТ69	forward ORB/ET attach (i <sub>o</sub> = 1.5°) - per LMSC dwg. R80084
FR6	umbilical door fairing support - per VL78-000062A
FL9	LH <sub>2</sub> feed line ET/ORB - per VL78-000062A
PT12	tank lightning rod - per VL78-000062A
PT13	LOX recirculation line - per V!.78-000062A
PT14	LOX pressure line - per VL78-000062A
PT20	LOX pressure line and electrical conduit per VL78-000062A
Т20	tank - per VL78-000041C
SRB	
PS7	attach rings and rear structural ring - per VL77-000066
PS20	electrical tunnel - per VC77-000002
PS9	tie down structure - per VL77-000066
S22	SRB baseline - per VC77-000002

1) Tank Protuberances, Figure 4

- 2) SRB Protuberances, Figure 5
- 3) Elevon Flipper Doors, Figure 6

Configurations and their test conditions are shown in Table II.

#### TEST FACILITY DESCRIPTION

The Marshall Space Flight Center 14" x 14" Trisonic Wind Tunnel is an intermittent blowdown tunnel which operates by high pressure air flowing from storage to either vacuum or atmospheric conditions. A Mach number range from .2 to 5.85 is covered by using two interchangeable test sections. The trisonic section permits testing at Mach 0.20 through 2.50 and the supersonic section permits testing at Mach 2.74 through 5.85. Mach numbers between .2 and .9 are obtained by using a controllable diffuser. The range from .95 to 1.3 is achieved through the use of plenum suction and perforated walls. Mach numbers of 1.44, 1.93 and 2.50 are produced by interchangeable sets of fixed contour nozzle blocks. Above Mach 2.50 a set of fixed contour nozzle blocks are tilted and translated automatically to produce any desired Mach number in .25 increments.

Air is supplied to a 6000 cubic foot storage tank at approximately -40°F dew point and 500 psi. The compressor is a three-stage reciprocating unit driven by a 1500 hp motor.

Tunnel flow is established and controlled with a servo-actuated gate valve. The controlled air flows through the valve diffuser into the stilling chamber and heat exchanger where the air temperature can be controlled from ambient to approximately 180°F. The air then passes through the test section which contains the nozzle blocks and test region.

and the same and the

Downstream of the test section is a hydraulically controlled pitch sector that provides a total angle of attack range of  $20^{\circ}$  ( $\pm$   $10^{\circ}$ ). Sting offsets are available for obtaining various maximum angles of attack up to  $90^{\circ}$ .

1)

#### DATA REDUCTION AND PRESENTATION

All model forces and moments (measured by the balance 239) were resolved in the body axis system and presented in the form of non-dimensional coefficients. Data were corrected for weight tares and sting deflections. Coefficients were nondimensional as shown below.

Main Balance Coefficients

CNU = 
$$\frac{F_N}{qS_{ref}}$$
, normal force coefficient uncorrected for base pressure forces

$${
m CN} = {
m CN_U - CNB_{()} - CN_{BF}}$$
 , normal force coefficient corrected for orbiter base pressure acting on the orbiter base and body flap

$$CA = \frac{\mathbf{F}_{A}}{qS_{ref}}$$
, total axial force coefficient.

CAF = 
$$CAT - CAB_O - CAB_S - CAB_E$$
, forebody axial force coefficient.

$$rac{r_{\gamma}}{r} = \frac{F_{\gamma}}{qS_{ref}}$$
 , side force coefficient

CLMU = 
$$\frac{M_y}{qS_{ref}^{\ell}r_{ef}}$$
, pitching moment coefficient uncorrected for hase pressure forces.

$$CLM = C_{mU} + CNB_O \frac{x_1}{\ell_{ref}} + CN_{BF} \frac{x_2}{\ell_{ref}} - CAB_O \frac{z_1}{\ell_{ref}},$$

pitching moment coefficient corrected for orbiter base pressure acting on the orbiter base and body flap.

CLMBF = 
$$CN_{BF}$$
  $\frac{X_2}{\ell_{ref}}$ , pitching moment coefficient due due to body flap

CYN = 
$$\frac{M_Z}{qS_{ref}^{2}ref}$$
, yawing moment coefficient

CBL = 
$$\frac{M_X}{qS_{ref}}$$
, rolling moment coefficient

CNBO = 
$$- \frac{A_{bo}}{S_{ref}}$$
 tan  $i_b$ , normal force component coefficient of orbiter base drag

$$\begin{array}{lll} \text{CNBF} & = & -\text{ CPB}_{BF} & \frac{S_{bf}_{ref}}{S_{ref}} & \text{, body flap upper surface} \\ & & \text{normal force coefficient} \end{array}$$

CABO = 
$$- \text{CPB}_0 = \frac{\Lambda_{b_0}}{\text{Sref}}$$
, axial force component coefficient of orbiter base drag

CABS = - CPB<sub>S</sub> 
$$\frac{A_{b_s}}{s_{ref}}$$
, SRB base axial force coefficient

CABE = 
$$-CPB_E = \frac{\Lambda_{be}}{S_{ref}}$$
, tank base axial force coefficient

where:

CPBO = 
$$\frac{P_{b_0} - P_{\infty}}{q}$$
 , orbiter base pressure coefficient

CPBS = 
$$\frac{P_{b_S} - P_{...}}{q}$$
, SRB base pressure coefficient

CPBE = 
$$\frac{P_{b_e} - P_{\infty}}{q}$$
 , tank base pressure coefficient

CPBBF = 
$$\frac{P_{bbf} - P_{co}}{q}$$
 , body flap upper surface pressure coefficient

 $i_b = 14^{\circ} - 45^{\dagger}$ , average orbiter base slant angle

 $X_1$  = 5.052 in., axial moment arm for orbiter base drag

 $X_2 = 5.319$  in., axial moment arm for body flap

 $Z_1 = 1.344$  in., vertical moment arm for orbiter base drag

For balance location with respect to the MRP, see Figure 2.

Wing Balance Coefficients

$$CNW = \frac{F_{N_W}}{qS_{ref}}$$
, wing normal force coefficient

CBW = 
$$\frac{M_{B_W}}{qS_{ref} b_{ref}}$$
, wing root bending moment coefficient

for YMRP @  $Y_0 = 105$  in.

Wing Balance Coefficients (Continued)

CTW = 
$$\frac{M_{T_W}}{qS_{ref} \overline{c}}$$
, wing torsion moment coefficient for XMRP @  $X_o = 1307$  in.

Elevon Hinge Moments

#### Outhoard

CHEO = 
$$\frac{HM_{eo}}{qS_{eref}} \frac{r_{e}}{r_{e}}$$

Where: CHEO = outboard elevon hinge moment coefficient

HM = outboard elevon hinge moment

Seref = elevon reference area

c = elevon reference length

## Inboard

CHEI = 
$$\frac{HM_{el}}{qS_{eref} c_{e}}$$

where: CHE1 = inboard eleven hinge moment coefficient

HM<sub>e1</sub> = inboard eleven hinge moment

Model reference dimensions used in the data reduction are:

PARAMETER	FULL SCALE	MODEL SCALE
Reference Areas		
S <sub>ref</sub> (wing)	2690.00 ft. <sup>2</sup>	6.198 in. <sup>2</sup>
S <sub>hfref</sub>	142.60 ft. <sup>2</sup>	0.329 in. <sup>2</sup>
s <sub>eref</sub>	210.00 ft. <sup>2</sup>	0.484 in. <sup>2</sup>
Reference Lengths		
c (m.a.c.)	474.8 in.	1.899 in.
ℓ <sub>ref</sub> (body length)	1290.3 in.	5.161 in.
b <sub>ref</sub> (wing span)	1290.3 in.	5.161 in.
Moment Reference Point from EI base on ET $C_{\rm L}$	1199.8 in.	4.799 in.
c <sub>e</sub>	90.7 in.	0.363 in.
Base Areas		
Orbiter (A <sub>bo</sub> )	436.7 ft. <sup>2</sup>	1.006 in. <sup>2</sup>
Tank (A <sub>be</sub> )	597.6 ft. <sup>2</sup>	1.377 in. <sup>2</sup>
SRB $(\Lambda_{b_a}, 2)$	472.8 ft. <sup>2</sup>	1.089 in. <sup>2</sup>

MACH Number	REYNOLDS NUMBER (per foot)	DYNAMIC PRESSURE (pounds/sq.inch)	S TAGNATION TEMPERATURE (degrees Fahrenheit)	STAGNATION PRESSURE (pounds/sq inch
) . (	$5.0 \times 10^6$	4.35	100	22
).8	6.0	6, 45	100	22
0.9	6.2	7.36	100	22
, ()	6.5	8.14	100	22
. 05	6.6	8.72	100	2.2
. 10	6.6	9,29	100	22
.15	6.7	9.99	100	22
	6.7	10.68	100	22
_25	6.8	11.38	100	22
46	6.5	9.47	100	22
. 96	7.0	10.20	100	28
99	4.0	5.19	140	30
1.96	4.8	3.07	140	90
BALA	NCE UTILIZED: M	SFG 239		
		CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
	NF .	200 lbs.	± 1.0 lb.	<b>±</b> 0.15
	SF	100 lbs.	± 0.5 lb.	± 0.08
	AF .	50 lbs.	± 0, 25 1h.	± 0.04
	PM	197 in. lbs.	± 1.0 in. lb.	± 0.18
	RM	98 in. lbs.	± 0.5 in. 1b.	± 0.09
•	YM	50 in, 1bs.	± 0, 2 in, 1b.	± 0.05

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	TERMA	017	61	09	49	15	0	5 3				0								55	B.A.Z.		
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RUN NUMBER COLLATION SUMMARY	ABERS	07	£ 3		. 'Y			, <b>,</b>	24		1-		ļ 							49	7		
ATIC	20 M HO	6.5	9,9	1,	4.	1,	*,	33 27	- 6	29	W					1				43	644		
3 COLI		s 5.8	9	1.,	7 1	いい	3/	is.	20	23	1/1	7.									[]	.vs	
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UN NO	VALUE													-	-		-	-	-		. i i	COEFFICENTS	
ET	RAMETERS/VALUES	7/49	04	27	Ċ	C	20	40	20	C #	C	S			-	-	-	+	-	31	751		
DATA	PARAW	10		7	÷	()		0				٥			+					2	CCL		
	SCHD.	8	0	71	0	11	()		E	E										25	7		
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-7-3-17-	0 1 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	roll droplan	575- 370			Ĭ	73+3176 066	1,000 5 54.	-											13 19	عبيديك		
.,			19 9407	18/	6/	20	21 776	22	23	24	25	26								7	1541	0	
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TABLE II (Continued)

	h						TE	ST	RUN	NUM	BEF	15							-		<b>&gt;</b> 0 <b>×</b>
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ERNATE INDEPENDENT V	6 2.99 4.48	12.6 21.5	814 812	821 320	1/008	198C	305	808	80	810	801	908	1805	1900	600 5	812	811				10VAR (1)
⊢	1.4t 1.96																			66	
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*AGE *:	6.013																		-   ;	2.7.1	
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PARAMETERS/VALUES	ᣠ⇔	Ü																	-	C.A.	COE
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	CONFIGURATION	74. 075		1	SYOTS + PLUME		4	STOT		~	240T +PLU	, ,		•	24 275	94675	1976			M. 67.	
DATA SET	1DENTIFIER	RINOSC	38	29	02	ر <sub>ا</sub>	7.	53	34	35	; 36	157	38	23	C)	1/	Y 42	-	-	47.16	0 BO B

TABLE II (Continued)

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<u>-</u>	FERNAT	941	135	133	134	132	136	137	138	0/1	139	142	141	143	145	9,4/	144	14.0		55	1		
ARY	OR ALT	1.20	06	129	121	121	93	96	16	89	86	66	46	701	211	8/1	501	0//			1		
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SET. RUN NUMBER COLLATION SUMMARY	NOW YO	6.9	69	130	122	125	46	99	92	90	28	98	93	101	11/1	117	90/	601		43	1	• 2	70
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777 675		CONFIGURATION	74 ØTS										:							13 19	1. 1.ELV-T.LELV-	A: A.	8:8
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TABLE II (Continued)

1)

DATA SET CONFIGURATION SC		LUG EQ.	SELVIOR NOMBER COLLA LION SOMMARY			)		١		
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8	ARA.	70°.	MACH	MACH NUMBERS	OR AL	TERNATE INDEPENDENT VARIABLE	INDEPE	NDENT V	ARIABLE )	
Γ	2/4 07 9		0.8 0.9	2100	1,05	110	11/2/1	1,25 1.46	2	
14 \$TS + Z 13 A	0400	7	99 69	63	79	9 19	9 179	65		
0	B 0 40	ĺη	56 57	7	54	09	25	1/85		
#	000	Q.	44 4S	67 -	48	<b>-</b>	50	-		
	800	h	55 54	. ] 7	52	15	53	8		
27\$ 24TS+Z13 A	0 0 20	CAI	15 16	8/	6/	202	119	17/6		
(WINE BR) A	0 0 0	∿)	39 38	37	36	33 3	34 35	2 40/		
0	8 0 20	, 0	27 26	24	23	22	25	1.		
0	B 0 40	5 2	28 29		31	32	30	0		
# #	000	<u>-</u> ۲۰	2 1/	7	6	├—	9 3	42		
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CMDE GHEO CHET GA	GN.B.F.	C.B.	1111	1 1 1					)  -	<u>.</u>
	COEFF	OEFFICENTS					٦	DVAR (1)	IDVAR (2)	
			•							1

and the contract of the second

TABLE II (Continued)

	TEST://	TEST: MSFC TWT 622	DA	DATA SET/RUN NUMBER COLLATION SUMMARY	UMBER	COLLATI	ON SUM	AARY	Q	DATE: 3	5/22/98	25	
	DATA SET	CONFIGURATION	SCHD. PAF	ARAMETERS/VALUES	SO NO.	MACH N	UMBERS	OR ALT	ERNATE	2000	MACH NUMBERS ( OR ALTERNATE INDEPENDENT SECTOR		
	: I		a B SE	र्वहरू विह्रव	RUNS	0.6 0.9	30/15	1.20	1 77"	9619	0,9 1,05 1,20 1,46 1 96 90 11 110 11 01	/ 0/	ŀ
	RIN 129	1 74 675	0 8 0	0	۳۱				7 02	100	07.0 7	47.0	T
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	22	nilate a	2 0		7	+	$\perp$			82	1 820	3/9	
	1	1	2	+	1	-					/08 800/		
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	12,		70								802		<u> </u>
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ئات	105	13	. 25	31	37	3	•		    :	] ;	- • <sup>†</sup>		4
<u> </u>	WIDE 1	155/16/15/16/1	1517-1546,67	V-ALALIFHA, PR	χ. 1	BETA	-			-	- 1		75 76
	9 08	8		COEFFICENTS	CENTS					₫	DVAR (1)	DVAR (2)	Ž
	SCHEDULES	LES											1
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TASES II (Continued)

CONFIGURATION SCHO PARAMETERS/VALUES OF ALTERNATE INDEPENDENT VARIABLE TO CONFIGURATE INDICATION	TEST: MSFC	55 TUT 622	L	۵	<b> </b>	SET RU	X N N	BER	COLL	ATION	RUN NUMBER COLLATION SUMMARY	ARY		DATE	1,3	77	125	
7)\$\$\text{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$	ATA SET		SÇ	10. PA	RAME	TERS/VI		Š.		N NO		OR AL	TERNA.	TE INDE	PENDE	RAV TA	IABLE)	
996 94 5 5 5 5 5 5 5 5 5 6 5 5 5 5 5 5 5 5 5	ENTIFIER	CONFIGURATION	٥	BA	3	1/2		RUNS	S		1.0	1,05	9/1	1.15	-	1		
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25		( 108	В	0	7	0		2		33	39	3,	13		75	1/04		
26	23		0	8	7	0		6	0	70		23	22	•	25			
26. b 0 8 1 0 5 1/1 2 4 5 6 7 3 42  26. b 0 8 1 0 5 1/4 5 1/1 00/1 9 8 1/2 45  7 13 13 25 31 37 43 46 55 61 67  100AR(1) 100AR(2)	7.7		0	2	7	0		v		52		ر ۲	32		30			
26 b 08 7 0 5 1/1 12 1/1 10/1 9 8 12 4/5	C.		_	3				'n	//	7	7	7	2	c	( ۲	42		
13 19 25 31 37 43 49 55 61 67 COEFFICENTS		-	+	1				٠,,	+	~1		1/0/	6	00	1/2	43		
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13 19 25 31 37 43 49 55 61 67  (1.157)  (2.16)  (2.16)  (2.16)  (3.16)  (3.16)  (4.16)																		
13 19 25 31 37 43 49 55 61 67  K																		
COEFFICENTS IDVAR(1) IDVAR(1) IDVAR(2)	7			25		31		37		43	49		55		61		67	75.76
COEFFICENTS IDVAR(2)	W 58	W STW	1	4	1	1	4	1	4	4	4	1	1	1	1	}	444	
	0						)EFF10	ENTS							ō	AR (1)		(2) NOV
	A NO D								1									

# TABLE 111

# MODEL DIMENSIONAL DATA

MODEL COMPONENT : RODY - BG2		
GENERAL DESCRIPTION	40 C/D orbiter	fuselage, MCR
200-Rh. Similar to 140 A/B fuselage ex	cept aft body r	evised and
improved midbody-wing-boot fairing, Xo =	940 to X <sub>0</sub> = 10	40.
MODEL SCALE: 0.001+		
VL70-000140C, -000202	c, 000205A, -00	0200B, -000203A.
DIMENSIONS .		
DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (IML: Fwd Sta. X <sub>0</sub> =238), In		5.161.
Length (OML: Fwd Sta Xo=235), In	11293.3	5.173
Max Width(@ $X_0 = 1528.3$ ), In.	264.0	1.056
Max Depth (@ X <sub>0</sub> = 1464), In.	250.0	1.000
Fineness Ratio	lı 899	4.899
Area - Ft <sup>2</sup>	<del></del>	·
Max. Cross-Sectional	3110.885	0.0055
Planform		
Wetted		
Bose		

# TABLE III (Continued)

# MODEL DIMENSIONAL DATA

MODEL COMPONENT : CANOPY - C12	•	, 
GENERAL DESCRIPTION Configuration	O C/D orbiter c	anopy, vehicle
cabin No. 31 updated to MCR 200-Ru. I		/
MODEL SCALE: 0.004		•
DRAWING NUMBER VL70-000140C, -0002		
		_
DIMENSIONS:	FULL SCALE	MODEL SCALE
Length (Xo= 434.643-578), in.	143-357	0.573
Max Width (@ X <sub>o</sub> = 513.127), In.	152.412	0.610
Max Depth ( $Z_0=501$ to 449.39), I	n. 51.61	0.206
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted	•	
Base .		

### TABLE 111 (Continued)

#### MODEL DIMENSIONAL DATA

ELEVON - E62 MODEL COMPONENT:

Split elevon, identical to  $E_{43}$  except the  $Y_{0}$  location of the mid-span elevon split line and gap width. GENERAL DESCRIPTION:

MODEL SCALE: 0.004

DRAWING No.: None

DIMENSIONS:	FULL SCALE	MODEL SCALE
Elevon Split:		
Right-hand at $Y_0$ , in.	296.00	1.184
Left-hand at Yo, in.	288.00	1.152
Elevon Gap		
Right-hand, in.	6.25	0.025
Left-hand, in.	6.75	0.027

MODEL COMPONENT : BODY FLAP - F10	·	
GENERAL DESCRIPTION : Configuration 1	OC/D body flap	. Hingeline
located at X <sub>0</sub> = 1532, Z <sub>0</sub> = 238.		•
MODEL SCALE: 0.0040		-
DRAWING NUMBER	155114	
·		4
DIMENSIONS:	FULL SCALE	MODEL SCALE
Length $(X_0=1525.5 \text{ to } X_0=1613), In$	87.50	0.350
Max Width (@ L.E., X <sub>0</sub> = 1525.5),I	n <u>256</u> .00	1.024
Max Depth ( $X_0 = 1532$ ), In.	19_79R	0.702
Fineness Ratio		
Area - Ft <sup>2</sup>		·
Max. Cross-Sectional (@H.L.)	35,196	0.00056
Planform	135.00	0.0022
Wetted	·	,
Base $(X_0 = 1613)$	4.89	.0.000078

MODEL COMPONENT : OMS POD - M16		
GENERAL DESCRIPTION:Configuration	140C orbiter OM	S pod - short
pod.		
MODEL SCALE: 0.0040		
DRAWING NUMBER: VL70-008401, VL70-00	08410 - plus 3"	added to simulate TP
		· ·
•	•	
DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OMS Fwd Sta $X_0=1310.5$ ),	In. 258.50	1.034
Max Width (@ X <sub>O</sub> = 1511), In.	136_8	0.547
Max Depth (@ $X_0 = 1511$ ), In.	74.70	0.299
Fineness Ratio	2 1.81	2.484
Area - Ft <sup>2</sup>		
Max. Cross-Sectional	58.865	0.0094
Planform		
Wetted		
Base	•	

MODEL COMPONENT: OMS NOZZLES - N28		•			
GENERAL DESCRIPTION: Configuration U/OA/B	GENERAL DESCRIPTION: Configuration 140A/B Orbiter OMS nozzles				
	•				
		·			
MODEL SCALE: 0.0040		•			
DRAVING NUMBER: VL70-000140A (Location): SS	-A00106, RFIFASE	5 (Contour)			
DIMENSIONS:	FULL SCALE	MODEL SCALE			
MACH NO.					
Length - In.					
Gimbal Point to Exit Plane					
Throat to Exit Flane					
Maneter - In.	•				
Exit	•				
Throat					
Inlet					
•		•			
Area - ft <sup>2</sup>					
Exit					
Throat ·	•				
Gimbal Point (Station) - In.		·			
Nipperxilonater Left Nozzle	•				
<b>X</b> .	1518.0	6.072			
Y	- 88.0	- 0.352			
Z	492.0	1.968			
Right	<b></b>				
Mover Nozzles					
X	_1518.00_	6.072			
Y	88.0	0.352			
2	492.0	1_968			
Null Resition - Deg		•			
Left dipper Nozzle					
Pitch	150ha'	150kg!			
Yav	12017'	12017			
Right					
276799c Nozzle	•	_			
Pitch	15 49'	15 <sup>0</sup> 49'			
Y2v .	12'17'	12017'			

MODEL COMPONENT: R5 - Rudder		
GLNERAL DESCRIPTION: 2A and 3 configurat VL70-000095 and VL70-000139	ion per Rockwe	ell lines
Scale Model = .004		/
DRAWING NUMBER: VL70-000139 VL70-000095		
DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area ~ Ft <sup>2</sup>	106.38	0.00170
Span (equivalent) ~ IN.	201.0	0.8040
Inb'd equivalent chord	91.585	0.36634
Outb'd equivalent chord	50.833	0.20333
Ratio movable surface chord/ total surface chord		
At inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
' Sweep Back Angles, degrees	•	•
Leading Edge	34.83	34.83
Tailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Normal to hinge line) Ft	526.13	0.00003
Product of area and mean ch	ord	

MODEL COMPONENT: VERTICAL - V 8		•
GENERAL DESCRIPTION: Configuration 140C/D or	biter vertical t	<u>ail                                      </u>
(identical to configuration 140A/B vertical ta-	11).	
MODEL SCALE: 0.0040		
DRAWING NUMBER: <u>VL70-000140C, -000146B</u>		
dimensions:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) - Ft <sup>2</sup> Planform Span (Theo) - In. Aspect Ratio Rate of Taper Taper Ratio	113.253 315.720 1.675 0.507	0.0068 1.263 1.575 0.507
Sweep-Back Angles, Degrees.  Leading Edge  * Trailing Edge  0.25 Element Line	45.660 26.2 41.130	47000 26.2 41.130
Chords: Root (Theo) %P Tip (Theo) %P M/C Fus. Sta. of .25 M/C W.P. of .25 M/C B.L. of .25 M/C	268.500 108.470 199.808 1463.50 635.522 0.000	1.074 0.434 0.799 5.854 2.542
Airfoil Section  Leading Wedge Angle - Deg.  Trailing Wedge Angle - Deg.  Leading Edge Radius	10.000 14.920 2.00	10.000 14.920 0.008
Void /.rea	13.17_	0.00051
Blanketed Area	0.00	0.000

MODEL COMPONENT: WING-W	TA	-
SENERAL DESCRIPTION: Confirmation Moc/D proffer	ing. MCR 200-Ru	. similar to
1507/8 wing Vill but with refinement at improved	ting-boot-widto	dy fairing
$(X_0 = 940 + 6 - X_0 = 3040)$ ; eleven solit. line rele	ocated from Yo-2	81 to Yo-312.5.
MODEL SCALES O OOMO		,
TREE 10.	DWG. NO. VL7	0-0001.140C, -000200B
DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area (Inco.) Ft2 Planform Span (Theo In. Aspect Ratio Rate of Taper Taper Ratio Dihedral Angle, degrees Incidence Angle, degrees Aerodynamic Twist, degrees Sweep Back Angles, degrees Leading Edge Trailing Edge O.25 Element Line Chords: Root (Theo) B.P.O.O. Tip, (Theo) B.P. MAC Fus. Sta. of .25 MAC W.P. of .25 MAC B.L. of .25 MAC EXPOSED DATA Area (Inco) Ft2 Span, (Theo) In. BP108 Aspect Ratio Taper Ratio Chords Root BP103	2600.00  936.68  2.265  1.177  0.200  3.500  0.500  3.000  45.000  -10.056  35.200  680.2h  137.85  h7h.31  1136.82  200.58  182.13  1751.50  720.68  2.050  0.245	0.043 3.747 2.265 1.177 0.200 3.500 0.500 3.500 0.500 3.000 45.000 -10.056 35.200  -2.757 0.551 1.800 4.547 1.162 0.720  7.006 -2.883 -2.059 0.245
Tip 1.00 b  MAC  Fus. Sta. of .25 MAC  W.P. of .25 MAC  B.L. of .25 MC  Airfoil Section (Rockwell Nod NASA)	137.85 392.83 1185.98 204.30 251.77	0.551 1.531 h, 7hh 1.177 1.007
$\begin{array}{r} XXXX-64 \\ \text{Root } \underline{b} = \\ \hline Tip \underline{b} = \\ \hline 2 \\ \hline \text{Data for (1) of (2) Sides} \\ \end{array}$	0.113	0.113
Leading Edge Cuff Planform Area Ft2 Leading Edge Intersects Fus M. L. @ Sta Leading Edge Intersects Wing @ Sta	1)3.18 500.00 1024.00	2,000 1,006

## MODEL DIMENSIONAL DATA

MODEL COMPONENT: SPOILER -  $z_{11_4}$ 

GENERAL DESCRIPTION: Elevon flipper door spoiler - Inboard (Midspan)

MODEL SCALE: 0.0040

DRAWING NO.: NONE

DIMENSIONS:	FULL SCALE	MODEL SCALE
Inboard Station:		
Leading edge @ $x_0$	1366.37	5.465
Trailing edge $@X_0$	1401.57	5.606
Trailing edge @ YO	219.06	0.876
Span	186.44	0.746

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

### TABLE 111 (Continued)

### MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT16

GENERAL DESCRIPTION: Forward orbiter/ET attach structure (2 member structure)

MODEL SCALE: 0.0040

MODEL DRAWING: SS-A00117

DRAWING NO.: VL78-000062B, SK-H-4011

DIMENSIONS:	MEMBER		FULL SCALE	MODEL SCALE
	#1.	$\chi_{o}$	394.38	1.578
		$Y_{O}$	0.00	0.00
		$z_{o}$	LWR ML	LWR ML
		$\mathbf{x_{T}}$	1131.00	4.524
		YŢ	561.298	0.187
		$z_{\mathrm{T}}$	561.298	2.245
	#2	$x_{o}$	394.38	1.578
		$Y_{O}$	o	0
		$Z_{\mathbf{o}}$	LWR ML	LWR ML
		$\chi_{\mathbf{T}}$	1131.00	4.524
		$\mathbf{Y}_{\mathbf{T}}$	- 46.8	- 0.187
		$Z_{\mathbf{T}}$	561.298	2.245
Diameter of members: (In	.)		5.70	0.0228

#### MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT17

GENERAL DESCRIPTION: Left rear orbiter/ET attach structure (2 member

structure)

MODEL SCALE: 0.004

DRAVING NO.: VL78-000062B, SK-H-4013. MODEL DRAVING: SS-A00117

DIMENSIONS:	MEMBER		FULL SCALE	MODEL SCALE
#	<b>#</b> 1	x <sub>o</sub>	1317	5.258
		Yo	- 96.5	-0.386
•		Z <sub>o</sub>	267.5	1.070
		X <sub>T</sub>	2058.0	8.232
		$\mathbf{Y}_{\mathbf{T}}$	- 1.25.827	-0.503
		$\mathbf{z_r}$	515.5	2.062
	<b>#</b> 2	x <sub>o</sub>	1317.0	5.258
		Yo	- 96.5	-0.386
		z <sub>o</sub>	267.5	1.070
	•	$\mathbf{x_T}$	2058.0	8.232
	•	YT	- 125.827	-0.503
		$\ddot{\mathbf{z}}_{\mathbf{r}}$	515.5	2.062

Diameter of Members: #1 11.5 In. Dia. F.S.

15.5 In. Dia. F.S.

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## MODEL DIMENSIONAL DATA

MODEL DRAWING: SS-A00117

11.5

4.5

MODEL COMPONENT: ATTACH STRUCTURE - AT18

DRAWING NO.: VL7&-000062B, SK-H-1:013

GENERAL DESCRIPTION: Right rear orbiter/ET attach structure (3 member structure)

MODEL SCALE: 0.004

DIMENSIONS:	MEMBER	FULL SCALE	MODEL SCALE
	#1 Xo Yo Zo XT YT ZT	1317.00 + 96.5 267.5 1872.0 + 125.827 515.5	5.258 + .386 1.070 7.488 +0.503 2.062
	#2 x <sub>o</sub>	1317.0	5.258

			$\mathbf{z}_{\mathbf{T}}^{\mathbf{T}}$	+ 125.827 <b>51</b> 5.5	+0.503 2.062
		<b>#</b> 2	Xo Yo Zo X <sub>T</sub> Y <sub>T</sub> Z <sub>T</sub>	1317.0 + 96.5 267.5 2058.0 + 125.827 515.5	5.258 +0.386 1.070 8.232 0.503 2.062
		<b>#</b> 3	X <sub>O</sub> Y <sub>O</sub> Z <sub>O</sub> X <sub>T</sub> Y <sub>T</sub> 2 <sub>T</sub>	1317.0 54.40 19.30 2058.0 2.5 567.6	5.258 0.218 0.077 8.232 0.010 2.270
Dinmeter of Members:	(In.)	<b>#</b> 1		15.5	

#3

#### MODEL DIMENSIONAL DATA

MODEL COMPONENT: FEEDLINE - FL5

GENERAL DESCRIPTION: LOX feedline simulated between ET and Orbiter.

MODEL SCALE: 0.0040

MODEL DRAWING: SS-A00117

DRAWING NO.: VL78-000062B

DIMENSIONS:	·	FULL SCALE	MODEL SCALE
Leading edge at:	$\mathbf{x_{T}}$	1033.3	4.132
	$\mathbf{Y_T}$	70.0	0.280
	$\mathbf{x_{T}}$	1033.3	4.132
	$\mathbf{Y_T}$	- 70.0	- 0.280
Trailing edge at:	$\mathbf{x_{T}}$	2071.50	8.286
	$\mathbf{Y_T}$	70.00	0.280
	$\mathbf{x_{T}}$	2071.50	8.286
	$\mathbf{Y_{T}}$	70.00	0.280
Diameter, In.	•	18.80	0.188

Centerline of LOX feedline located radially at  $\emptyset = 23^{\circ}24$ 

#### MODEL DIMENSIONAL DATA

MODEL COMPONENT: PRESSURE LINE - FL6

GENERAL DESCRIPTION: Max. cross-sectional area simulating LH2 pressure

line and electrical conduit box between ET and Orbiter.

MODEL SCALE: 0.0040

DRAWING NO.: VL78-OCOO62B MODEL DRAWING: SS-A00117

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	$\mathbf{x}_{\mathbf{T}}$	1127.1	4.508
	$\mathtt{Y}_{\mathbf{T}}$	110.3	0.441
Trailing edge at:	$\mathbf{x_T}$	2062.1	8.248
	$\mathbf{Y}_{\mathbf{T}}$	110.3	0.441

Centerline of LH pressure line located radially at  $\phi = 33^{\circ}45^{\circ}$ .

## TABLE 111 (Continued)

#### MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT68

GENERAL DESCRIPTION: Forward ET/orbiter attach, 74-0 model, vertical single post attach member.

MODEL SCALE: 0.0040

1

DRAWING NO.: VL78-00062B

dimensions:	FULL SCALE	MODEL SCALE
$x_0$	388.15	1.553
YO	0.0	0.0
<b>z</b> <sub>0</sub>	LML	LML
$x_{\mathtt{T}}$	1129.9	4.520
$\mathbf{Y_T}$	0.0	0.0
Z <sub>T</sub> (Attach Point on Tank)	565.1	2.2604
Diameter, Inches	15.75	0.063
Height of Member (distance between top centerline of tank and bottom centerline of orbiter), In.	48.9	0.196

### TABLE 111 (Continued)

### MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT69

GENERAL DESCRIPTION: Forward ET/orbiter attach, model 74-0, vertical single post attach member.

MODEL SCALE: 0.0040

DRAVING NO.: VL78-00062B

DIMENSIONS:	FULL SCALE	MODEL SCALE
$x_0$	388.15	1.553
Y <sub>O</sub>	0.0	0.0
z <sub>0</sub> _	LML	LML
$x_{\mathtt{r}}$	1129.9	4.520
$Y_{\mathbf{T}}$	0.0	0.0
ZT (Attach Point on Tunk)	565.1	2.2604
Diameter, Inches	15.75	0.063
Height of Member (distance between top center- line of tank and bottom centerline of		
orbiter), In.	24.45	0.098

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### MODEL DIMENSIONAL DATA

MODEL COMPONENT: REAR ATTACH STRUCTURE FATRING - FRG

GENERAL DESCRIPTION: Rear ET/Orbiter attach structure cross-member or

beam fairing used in conjunction with AT12, AT13, FL1 and FL2.

MODEL SCALE: 0.0040

DRAWING NO.: VL78-000062B MODEL DRAWING: SS-A01256

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge centerline at	$\mathbf{x}_{\mathbf{T}}$	2036.67	8.147
	$\mathbf{Y_{T}}$	0.00	0.00
	$z_{ m T}$	183.00	0.732
Maximum length, In.		64.00	0.256
Maximum width, In.		190.00	0.760

MODEL COMPONENT : LH2 UMBILICAL	FEEDLINE - FL9	
GENERAL DESCRIPTION LH Umbilio	cal Feedline with a	n electrical quick-
disconnect box between the Orbiter a	ind ET.	1
MODEL SCALE: 0.0040		
DRAWING NUMBER VL78-000062B		
DIMENSIONS :	FULL SCALE	MODEL SCALE
Centerline at X	2071.5	8.286
Max Width	31.2	0.125
Max Depth	37.5	0.150
Diameter	17.0	0.068
Area		
Max. Cross-Sectional		
Planform		
Wetted	**************************************	
Q <sub>aea</sub>	•	•

#### TABLE 111 (Continued)

#### MODEL DIMENSIONAL DATA

MODEL COMPONENT: ET PROTUBERANCE - PT12

GENERAL DESCRIPTION: Lightning rod attached to ET nose.

MODEL SCALE: 0.004

DRAWING NO.: VL78-000068A

DIMENSIONS:

Length

Diameter, In.

PULL SC\*\*\*

MODEL SCALE

0.124

30.90

0.013

#### MODEL DIMENSIONAL DATA

MODEL COMPONENT: ET PROTUBERANCE -  $PT_{\lambda3}$ 

GENERAL DESCRIPTION: Maximum cross-sectional area simulating LOX recirculation

line and electrical conduit box on planform view of External Tank, T20.

MODEL SCALE: 0.0040

MODEL DRAWING: SS-A00117

DRAWING NO .: VL78-000062B

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	$x_{\mathbf{T}}$	1208.3	4.833
	$\mathtt{Y}_{\mathbf{T}}$	+ 95.0	+ 0.380
	$\mathbf{x_T}$	1208.3	4.833
	$\mathbf{Y}_{\mathbf{T}}$	- 95.0	- 0.380
Trailing edge at:	$x_{\mathbf{T}}$	2060.5	8.242
	$\mathbf{Y}_{\mathbf{T}}$	95.0	0.380
	$x_{\mathbf{T}}$ .	2060.5	8.242
	$\mathtt{Y}_{\mathbf{T}}$	- 95.0	- 0.380

Centerline of LOX recirculation line located radially at  $\emptyset = 33^{0}45^{\circ}$ .

#### MODEL DIMENSIONAL DATA

MODEL COMPONENT: ET PROTUBERANCE - PT14

GENERAL DESCRIPTION: LOX pressure line on Tank T20.

MODEL SCALE: 0.0040

ι,

DRAWING NO.: VL78-000062B

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	$\mathbf{x_T}$	355.90	1.424
	$\mathbf{Y}_{\mathbf{T}}$	6.0	0.024
Trailing edge at:	$\mathbf{x_T}$	2060.5	8.242
	$\mathbf{Y}_{\mathbf{T}}$	87.0	<b>3.348</b>

Centerline of LOX pressure line located radially at  $\phi = 23^{\circ}24^{\circ}$ .

#### MODEL DIMENSIONAL DATA

MODEL COMPONENT: NOSE CONE LINES - PT20

GENERAL DESCRIPTION: Maximum cross-sectional area simulating the LOX pressure line and electrical conduit on top of external tank  $(T_{20})$  nose cone area.

MODEL SCALE: 0.0040

DRAWING NO .:

DIMENSIONS:		FULL SCALE	MODEL SCALE
Leading edge at:	$\mathbf{x_{T}}$	<b>360.9</b> 2	1.444
	$\mathbf{Y_{T}}$	34.0	. <b>0.13</b> 6
Trailing edge at:	$\mathtt{X}_{\mathbf{T}}$	955.1	3.820
	YŢ	336.5	1.346

Centerline of lines located radially at  $\emptyset = 33^{\circ}45^{\circ}$ .

MODEL COMPONENT : EXTERNAL TANK - To	)	
GENERAL DESCRIPTION : External Oxygen-	Hydrogen tank	
		•
MODEL SCALE: 0.0040	· · · · · · · · · · · · · · · · · · ·	
DRAWING NUMBER :VI.72-000131, VI.78-00	00062	
		•
DIMENSIONS :	FULL SCALE	MODEL SCALE
Length, In. (Nose @ X <sub>0</sub> =328.92)	1846_505_	7.388
Max Width Dia, In. @ Xo=975.675	333.2	1.333
Max Depth , In.	330.2	1_333
Fineness Ratio	5.6;713	5.65713
Area - Ft <sup>2</sup>		·
Max. Cross-Sectional	605.534	0.0096
Major Cross section	594.679	0.0095
WP of tank centerline (2)	,In. 400.000	0.0064
Base (on 330.2 dia.)	594.679	0.0095

#### MODEL DIMENSIONAL DATA

MODEL COMPONENT: SRB PROTUBERANCE - PS7

GENERAL DESCRIPTION: SRB/ET attach ring: two attach rings and one structural

ring.

MODEL SCALE: 0.0040

DRAWING NO.: VL77-000066

DIMENSIONS (DATA FOR 1 OF 2):	FULL SCALE	MODEL SCALE
Centerline at XB	1505	6.020
	1517	6.068
	1852	7.408
Width	10	0.040
Heigth	10	0.040

MODEL COMPONENT : SRB PROTUBERANCE - PS20			
GENERAL DESCRIPTION :Electrical tur	nnel on SRB side,	30 deg. taper	
leading edge, circular cross section	with mounting fl	ange. Tunnel	
dáscontinued from $X_B = 1504.25$ to 1517	7.75		
MODEL SCALE: 0,0040 MODE	DRAWING: SS-AC	1281	
DRAWING NUMBER:VC77-000002A			
DIMENSIONS:	FULL SCALE	MODEL SCALE	
Length, In.	1384.57	5.538	
Max Width	13.00	0.052	
Max Depth	3.72	0.015	
Radius	0.619	0.619	
Fineness Ratio		<del></del>	
Area			
Max. Cross-Sectional			
Planform	*****		
Wetted	4/1 <del>2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2</del>	<del></del>	
Base			
Taper at leading edge, deg.	30	30	

### MODEL DIMENSIONAL DATA

MODEL COMPONENT: Tie-DOWN STRUCTURE - PS-9

GENERAL DESCRIPTION: Tie-down lugs on shroud of solid rocket motor booster.

MODEL SCALE: 0.004

DRAWING NO.: VL77-000066

DIMENSIONS:	FULL SCALE	MODEL SCALE
Number of tie-down lugs	4	4
Length, In.	64.00	0.256
Width, In.	13.00	0.052
Max. Height (at T. E.)	8.334	0.033
Angular position (from vertical), Deg.	60	60

## TABLE III (Concluded)

## MODEL DIMENSIONAL DATA

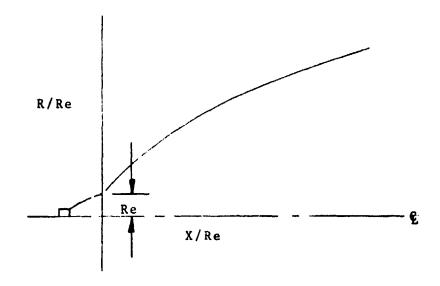
MODEL COMPONENT : BOOSTER SOLID ROCKET MOTOR - S22			
GENERAL DESCRIPTION: The BSRM is an external propulsion system which			
is jettisoned and recoverable after burnout. The BSRM's can be refurbished			
and reused after recovery.			
MODEL SCALE: 0.0040			
DRAWING NUMBER: VC77-000002C, VC70-000002A, VC72-000002C			
DIMENSIONS .	FULL SCALE	MODEL SCALE	
Length , In.,	1789.60	7.158	
Mox Width, Tank Dia., In.	146.00	0.584	
Max Depth , Aft shroud dia., In.	208,20	0.833	
Fineness Ratio	٤,596	8.596	
Area - Ft2			
Max. Cross—Sectional	236.423	0.0038	
Planform		-	
Wetted			
Bose			
WP of BSRM centerline ( $2_{ m T}$ )	400.00	1.600	
FS of BSRM nose $(X_T)$	743.0	2.972	
BP of BSRM centerline ( $Y_T$ )	250.5	1.002	

## TABLE IV - SOLID PLUME COORDINATES

M = 4.4

Re = 45.36 in.

R/Re	<u>X/Re</u>
1.000	.0000
=	
1.222	.2398
1.428	.4709
1.618	.6936
1.859	.9871
2.202	1.4240
2.503	1.8250
2.915	2.4020
3.319	3.0010
3.723	3.6320
4.127	4.2980
4.883	5.6380
5.670	7.1800
6.381	8.7160
7.128	10.5100
7.784	12.2600
8.386	14.0400
9.002	16.0500
9.552	18.1000
10.010	20.0400
10.410	21.9000
10.790	23,8700
	= 3



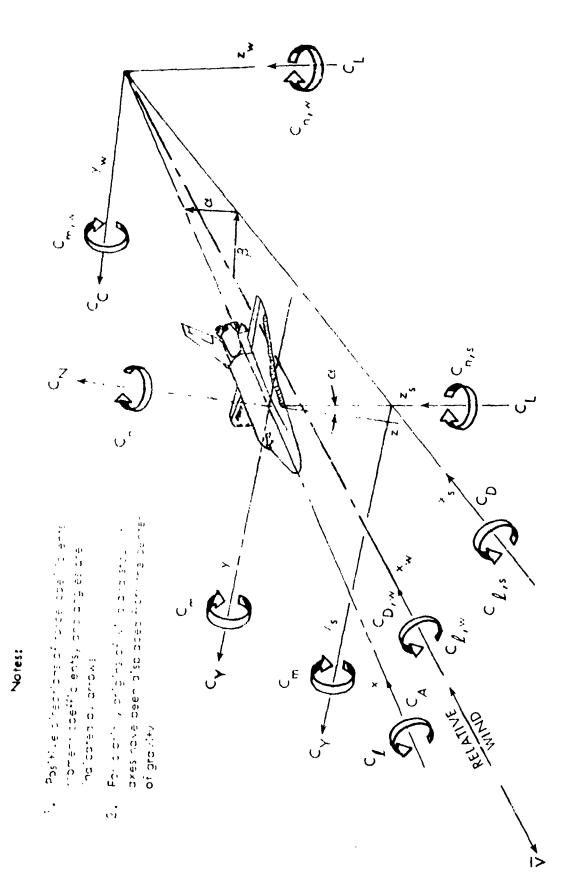


Figure 1. Axis System

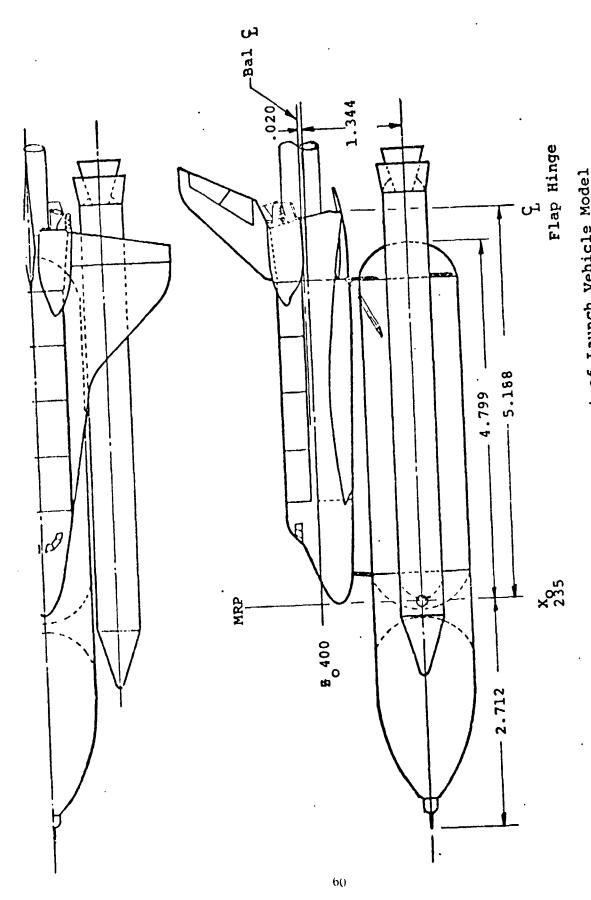


Figure 2.a. General Arrangement of Launch Vehicle Model (Balance in Orbiter).

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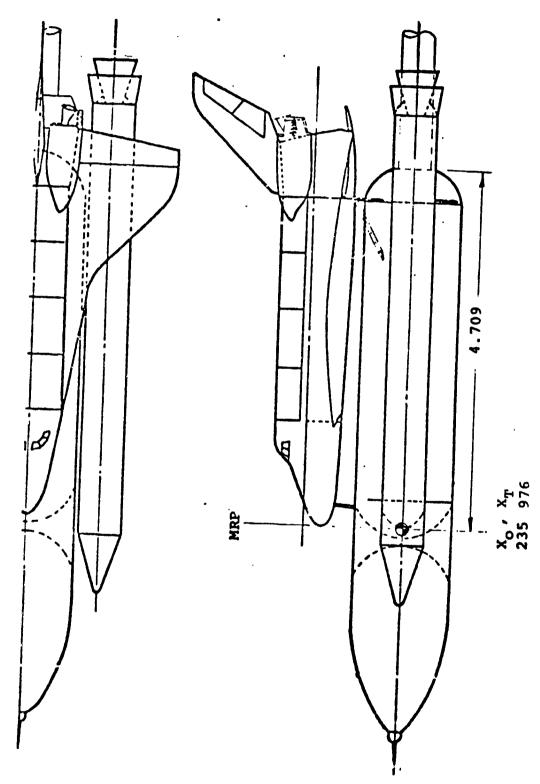
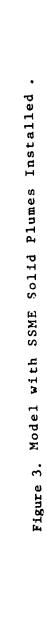
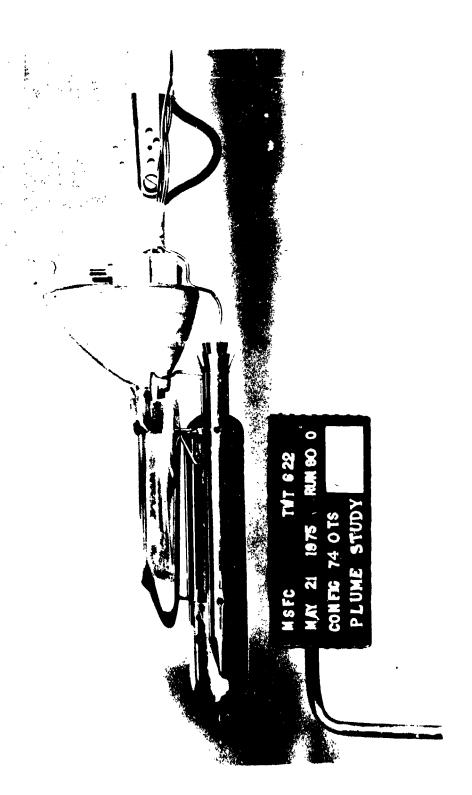
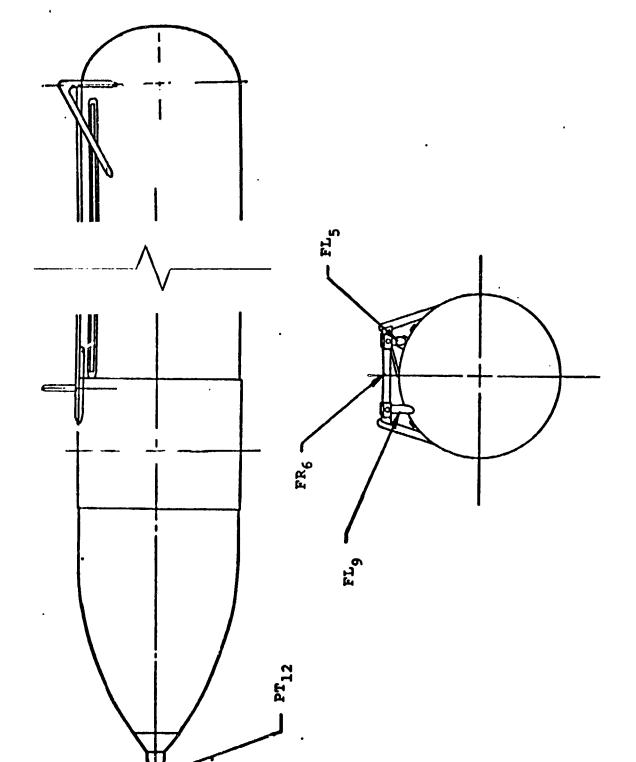


Figure 2.b General Arrangement of Launch Vehicle Model (Balance in the External Tank).





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Figure 4. Tank (T20) Protuberances.

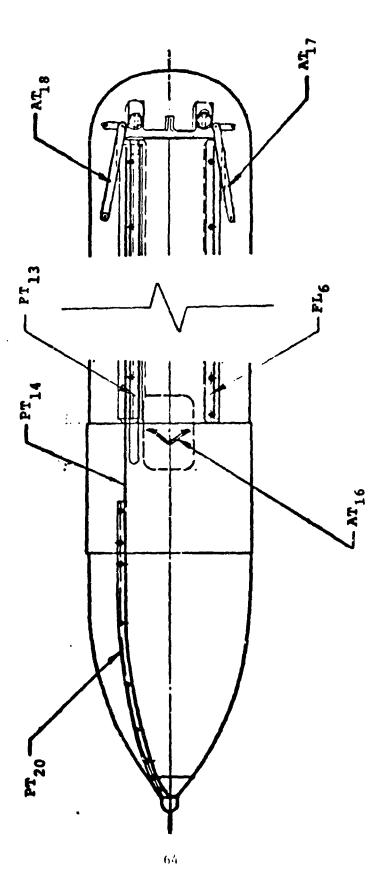
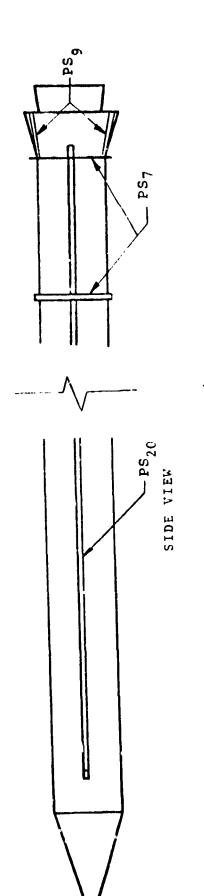
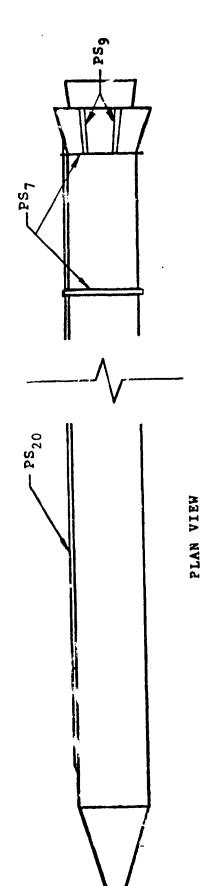


Figure 4. Tank  $(T_{20})$  Protuberances (Concluded).



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SRB (S<sub>22</sub>) Protuberances . Figure 5.

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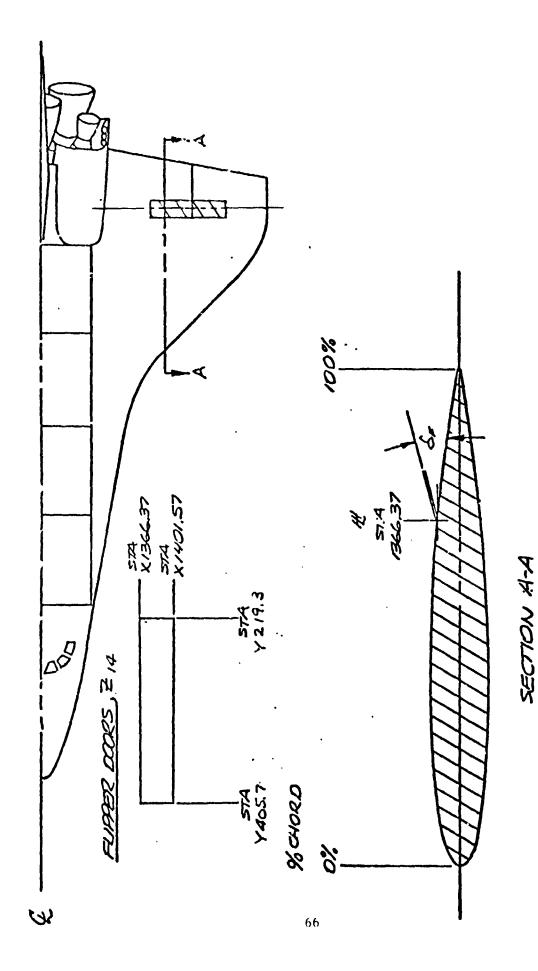


Figure 6. Elevon Flipper Doors,  $\mathbf{Z}_{14}$ .

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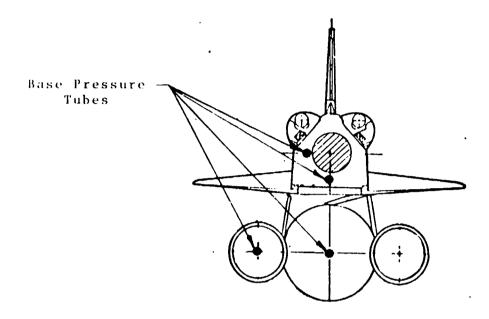


Figure 7.a. Location of Base Pressure Tubes (Balance in Orbiter).

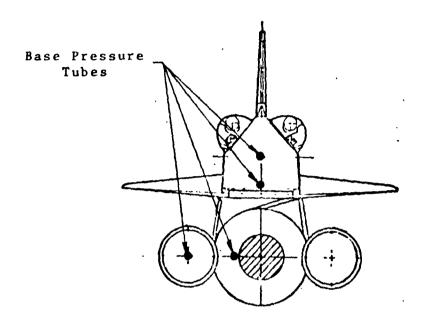


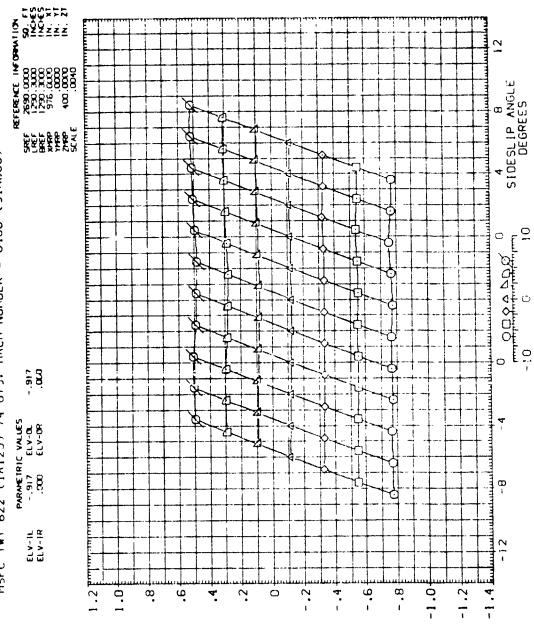
Figure 7.b. Location of Base Pressure Tubes (Balance in External Tank).

DATA FIGURES

 $(I_{1}, J_{2})$ 

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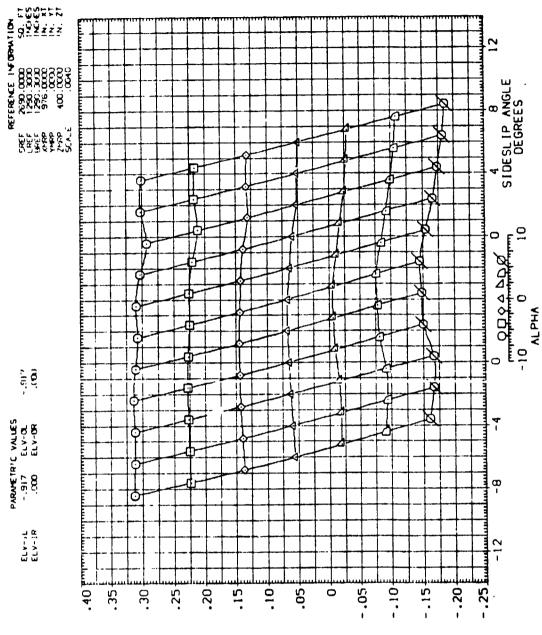
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EFFECT OF ANGLE OF ATTACK AND ANGLE OF SIDESLIP ON CHARACTERISTICS

NORMAL FORCE COEFFICIENT.

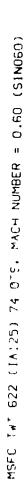
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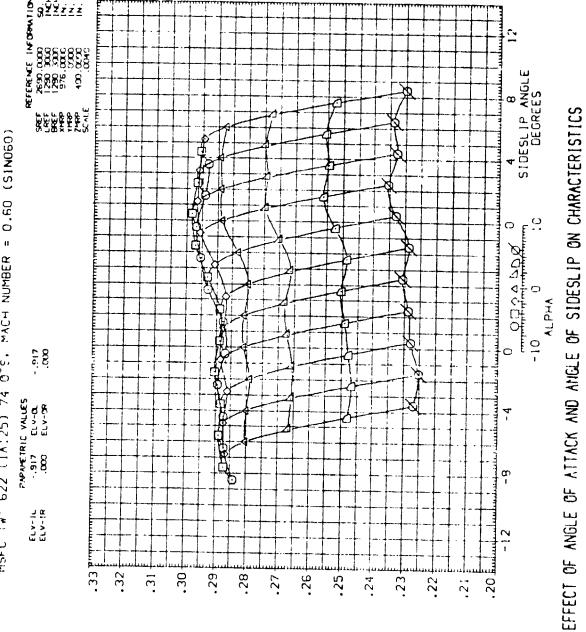
MSFC IWI 522 (1A125) 74 019, MACH NUMBER = 0.60 (SIND60)



PITCHING MOMENT COEFFICIENT, CLM

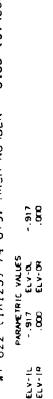
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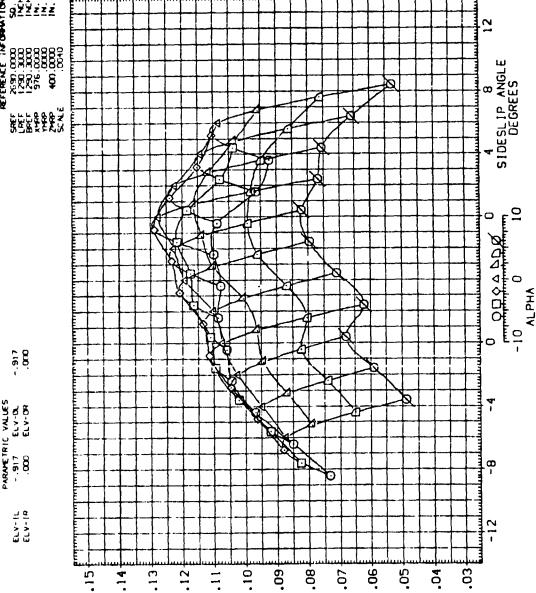




AXIAL FORCE CCEFFICIENT, CA

MSFC 141 622 (1A125) 74 015. MACH NUMBER = 0.60 (SIN060)





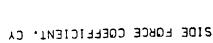
FOREBODY AXIAL FORCE COEFFICIENT, CAF

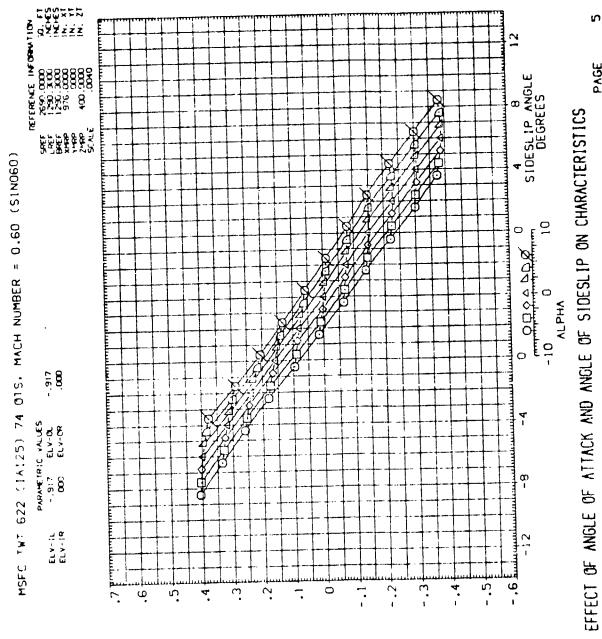
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EFFECT OF ANGLE OF ATTACK AND ANGLE OF SIDESLIP ON CHARACTERISTICS

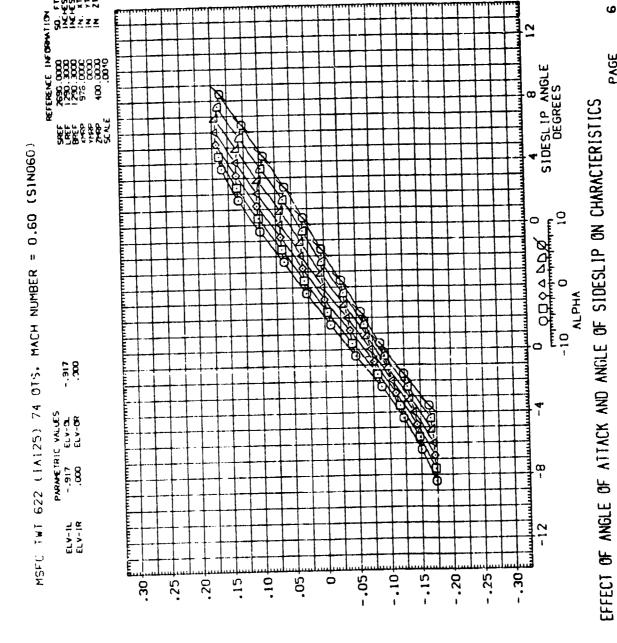
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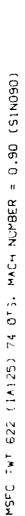
950.000 976.000 976.000 976.000 976.000 976.000 976.000 4 8 SIDESLIP ANGLE DEGREES SCALE MSFC TWT 622 (IA125) 74 OTS. MACH NUMBER = 0.60 (S1N060) 0 2.5.17 PARAMETRIC VALUES
-.917 ELY-CL
.COO ELY-OR 8 ELV-1L ELV-1R -.10 10 - .08 -.121 -.02--.04 90.--08 .06 .04 .02 0

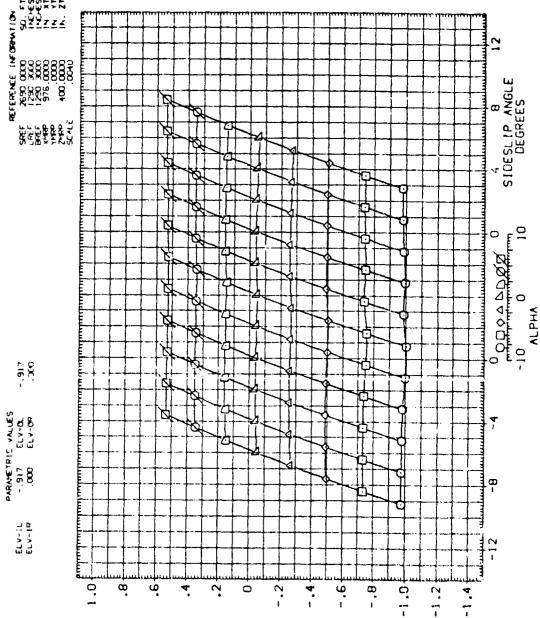
EFFECT OF ANGLE OF ATTACK AND ANGLE OF SIDESLIP ON CHARACTERISTICS

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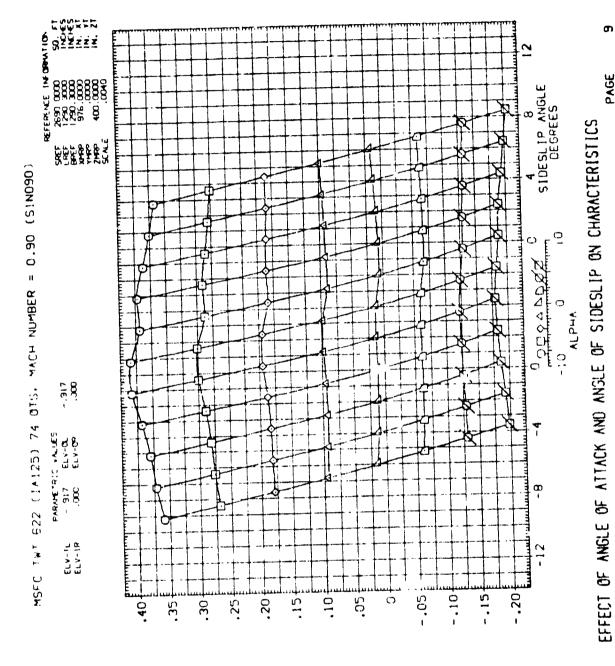
아 트립의 MOMENT COEFFICIENT, CBL (BODY AXIS)

Box of Burney





NOWWAL FORCE COEFFICIENT, CN



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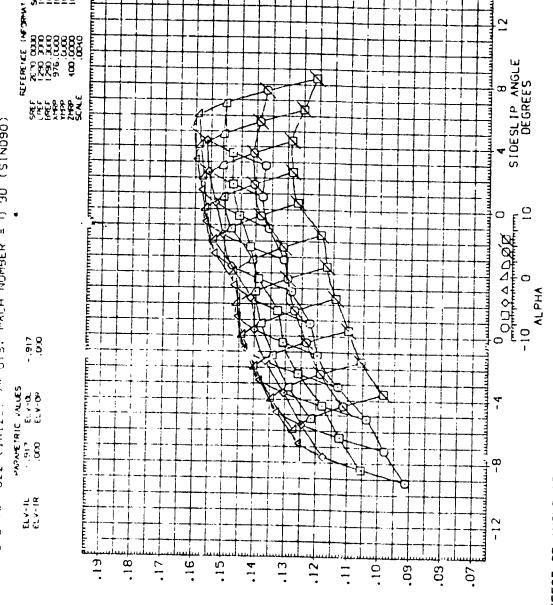
PAGE

PITCHING MOMENT COEFFICIENT, CLM

4 B SIDESLIP ANGLE DEGREES SCALE STATE MSFC INT 622 (1A125) 74 0TS. MACH NUMBER = 0.90 (SIN090) ALPHA ÷. 8 PARAMETRIC VALUES
-.917 ELY-OL
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AXIAL FORCE COEFFICIENT, CA

MSFC IWT 622 (1A125) 74 015, MACH NUMBER = 0 90 (SIN090)



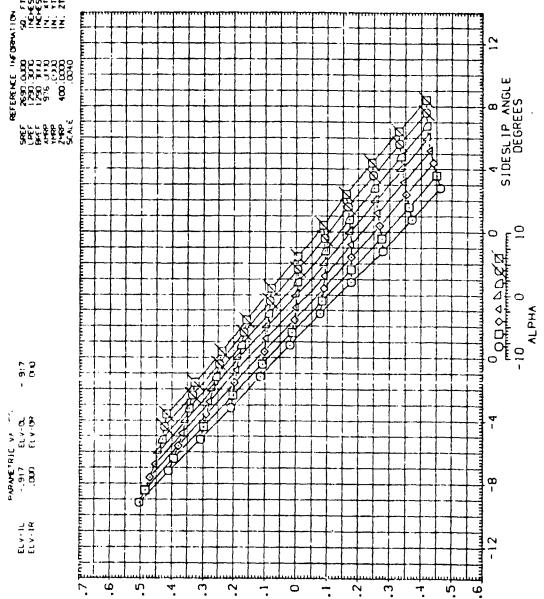
FOREBODY AXIAL FORCE COEFFICIENT, CAF

EFFECT OF ANGLE OF ATTACK AND ANGLE OF SIDESLIP ON CHARACTERISTICS

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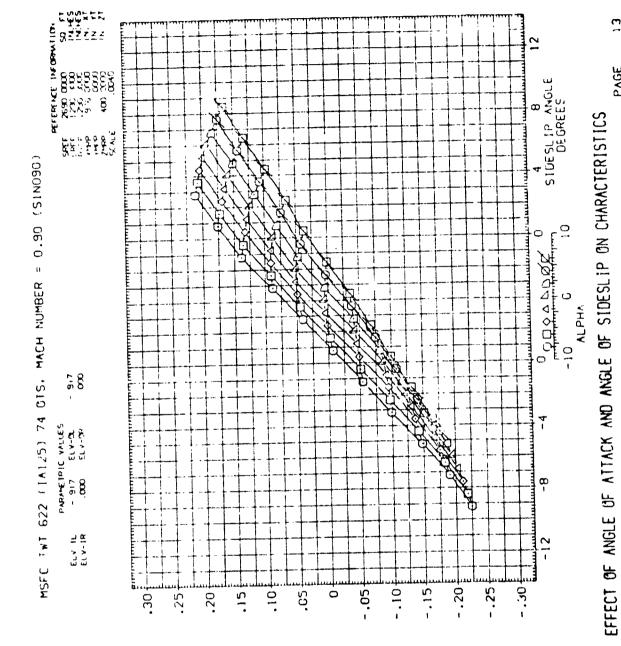
EFFECT OF ANGLE OF ATTACK AND ANGLE OF SIDESLIP ON CHARACTERISTICS

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SIDE FORCE COEFFICIENT, CY

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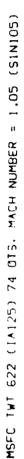
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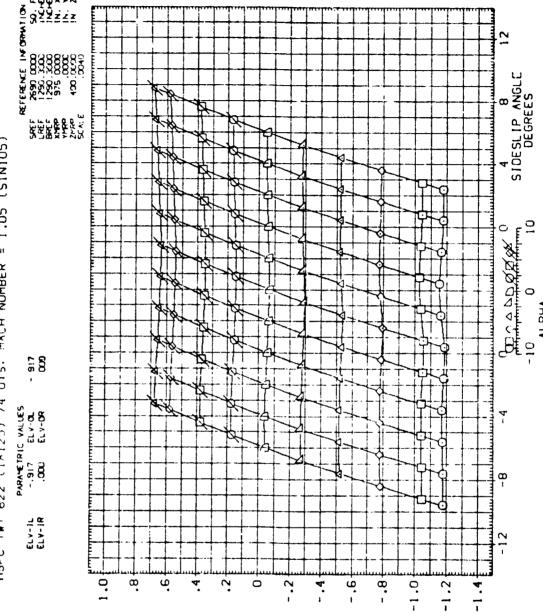
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ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

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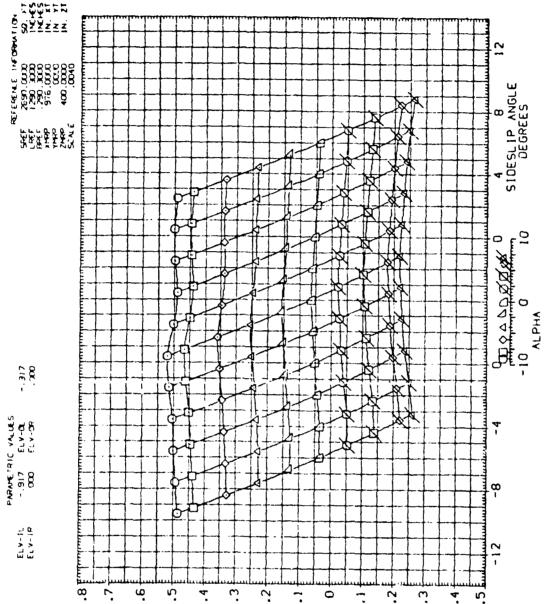
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EFFECT OF ANGLE OF ATTACK AND ANGLE OF SIDESLIP ON CHARACTERISTICS

NORMAL FORCE COEFFICIENT, CN

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MSFC TWT 522 (14125) 74 GTS. MACH NUMBER = 1.05 (S14105)



PITCHING MOMENT COEFFICIENT. CLM

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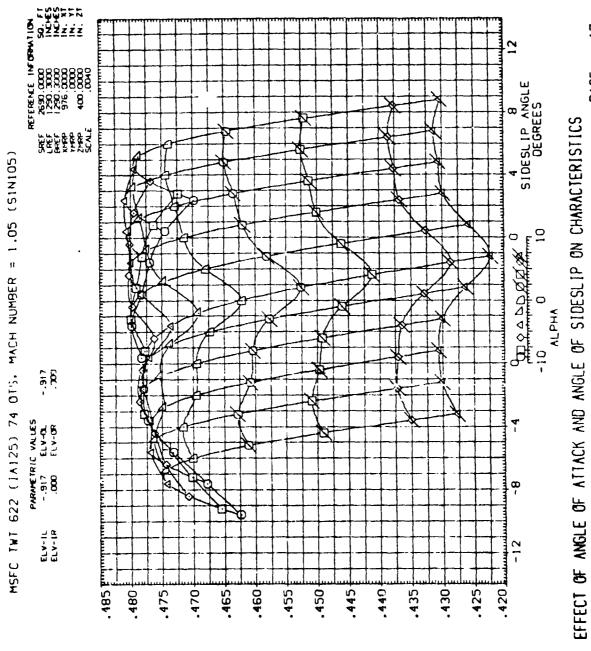
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EFFECT OF ANGLE OF ATTACK AND ANGLE OF SIDESLIP ON CHARACTERISTICS

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AXIAL FORCE COEFFICIENT, CA

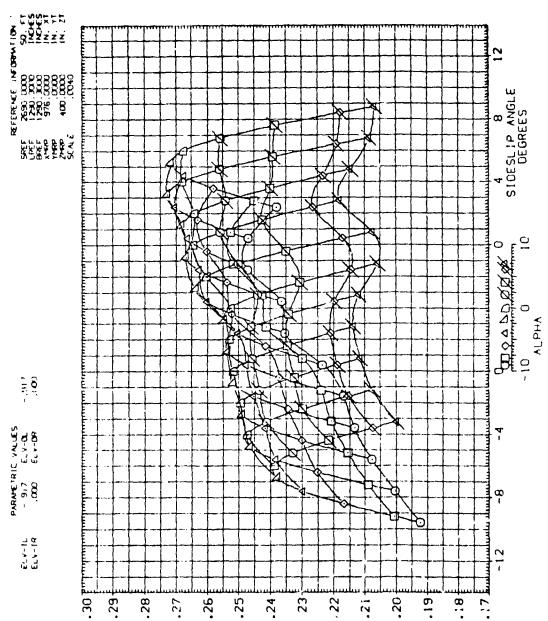


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FOREBOOY AXIAL FORCE COEFFICIENT, CAF

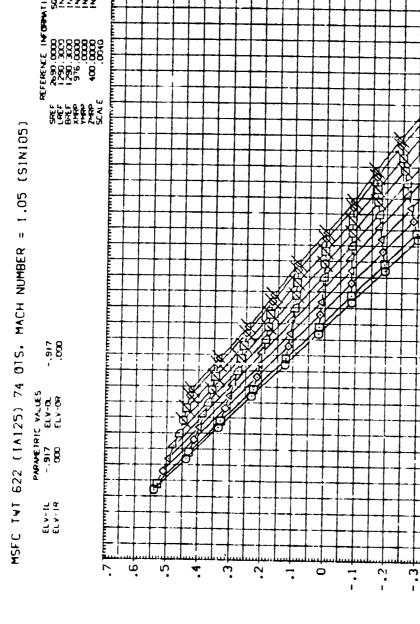
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EFFECT OF ANGLE OF ATTACK AND ANGLE OF SIDESLIP ON CHARACTERISTICS

4 8 SIDESLIP ANGLE DEGREES

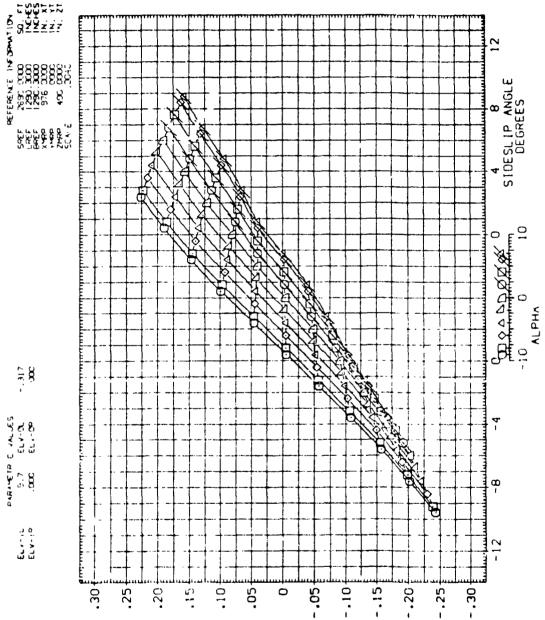
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SIDE FORCE COEFFICIENT, CY

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SFD 147 622 (14125) 74 CTS, MACH NUMBER = 1.05 (SIN105)



EFFECT OF ANGLE OF ATTACK AND ANGLE OF SIDESLIP ON CHARACTERISTICS

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AVMING WOWENT COEFFICIENT, CYN

(BDDA VXIZ)



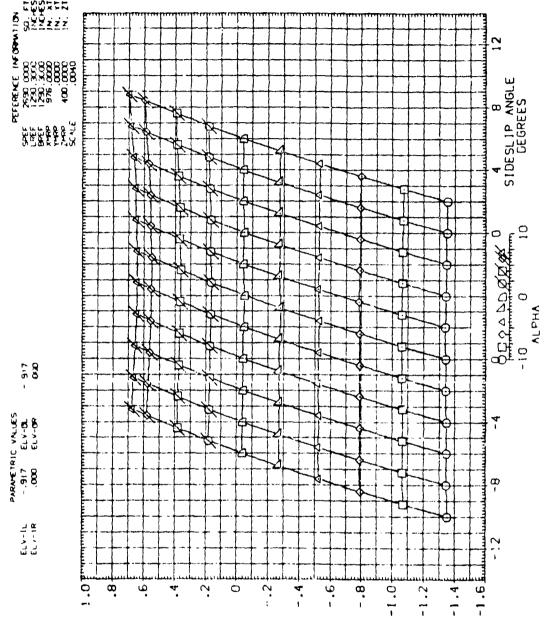
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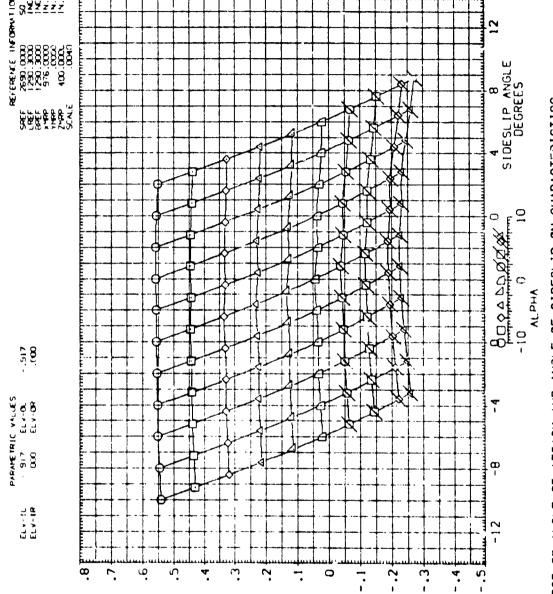
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ROLLING MOMENT COEFFICIENT, CBL (800Y AXIS)



NORMAL FORCE COEFFICIENT, CN



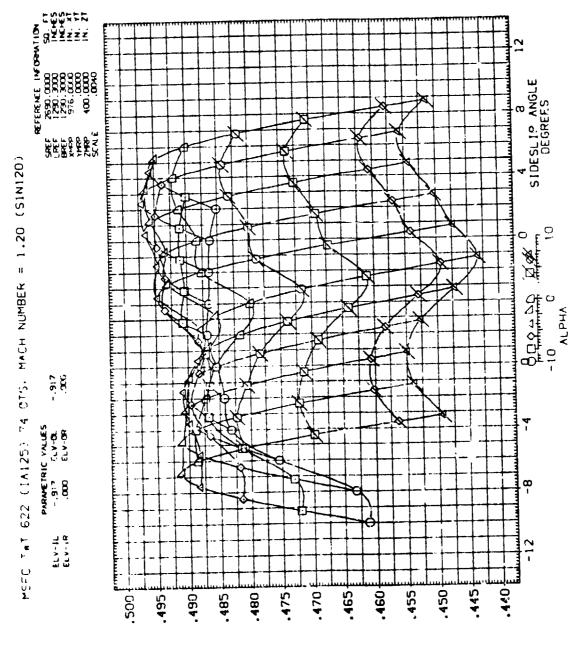


PITCHING MOMENT COEFFICIENT, CLM

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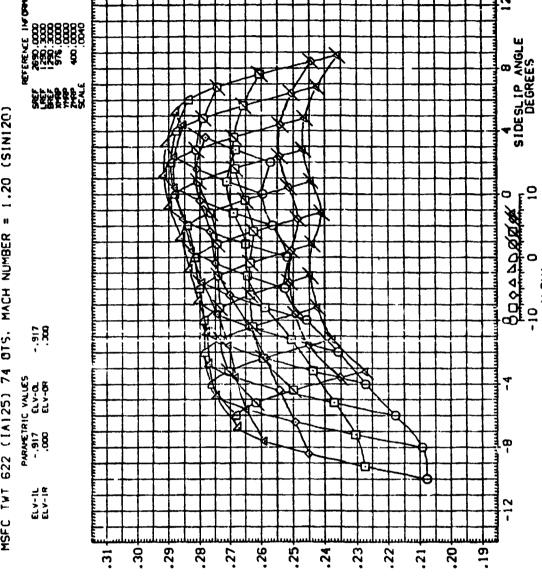
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AXIAL FORCE COEFFICIENT. CA





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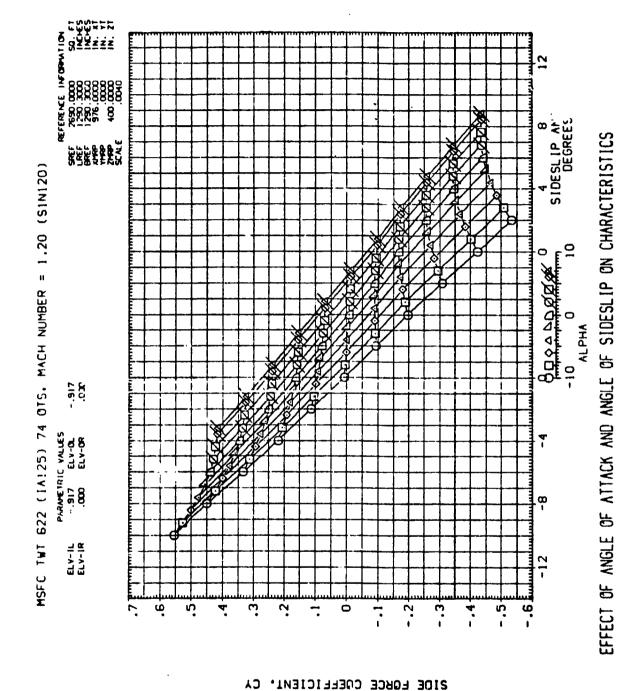
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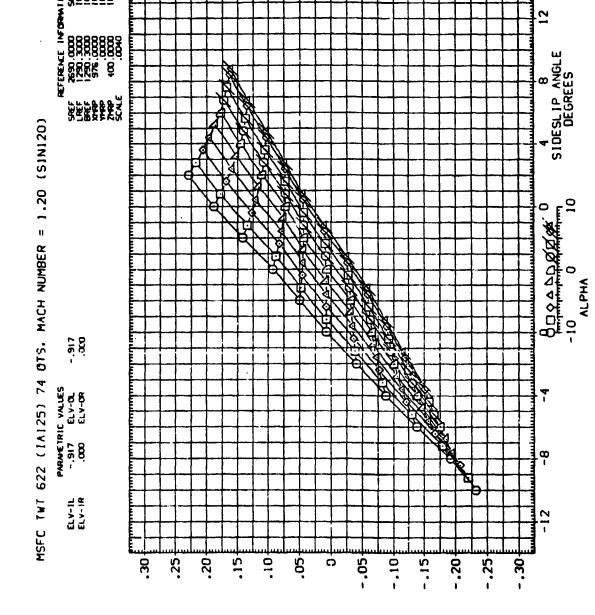
EFFECT OF ANGLE OF ATTACK AND ANGLE OF SIDESLIP ON CHARACTERISTICS

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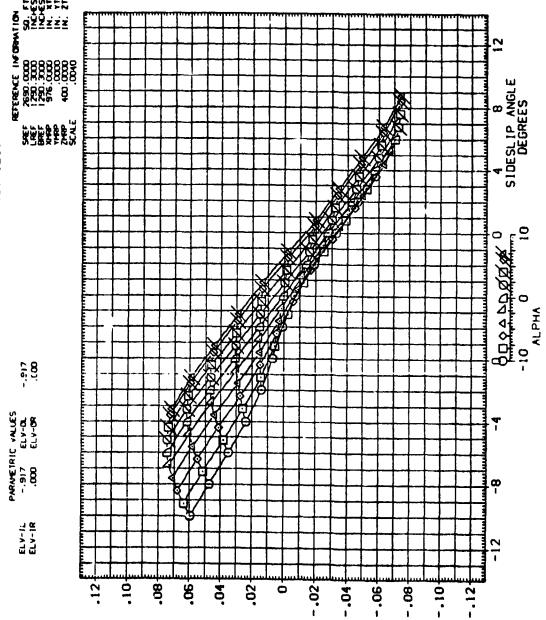
(SIXV AGOS) YAWING MOMENT COEFFICIENT, CYN

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EFFECT OF ANGLE OF ATTACK AND ANGLE OF SIDESLIP ON CHARACTERISTICS

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MSFC TWT 622 (IA!25) 74 0TS. MACH NUMBER = 1.20 (SIN120)



(SIXV AGD8) ROLLING MOMENT COEFFICIENT, CBL

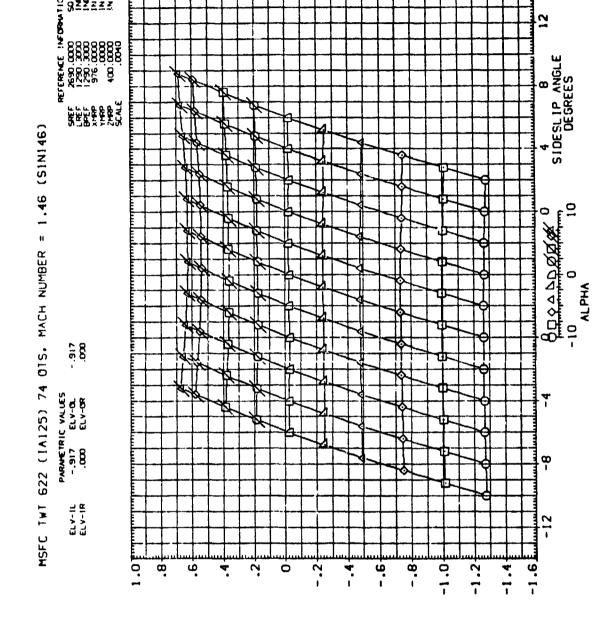
EFFECT OF ANGLE OF ATTACK AND ANGLE OF SIDESLIP ON CHARACTERISTICS

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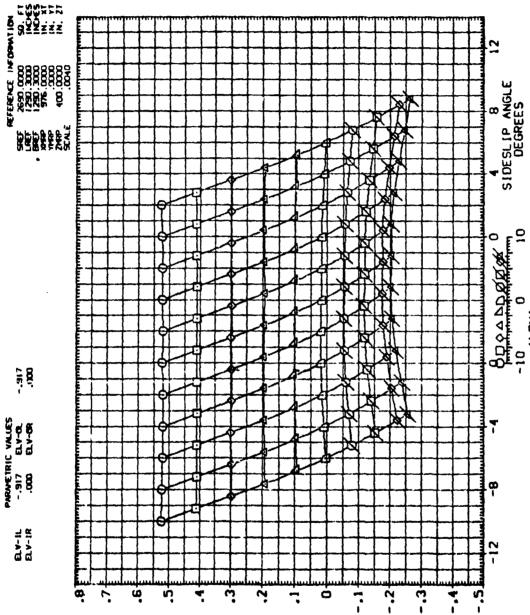


NORMAL FORCE COEFFICIENT, CN

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MSFC INT 622 (IA125) 74 015. MACH NUMBER = 1.46 (SIN146)



PITCHING HOHENT COEFFICIENT, CLM

EFFECT OF ANGLE OF ATTACK AND ANGLE OF SIDESLIP ON CHARACTERISTICS

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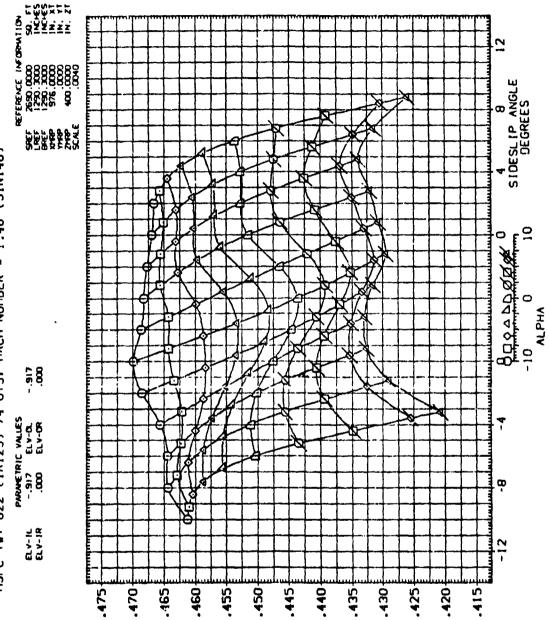
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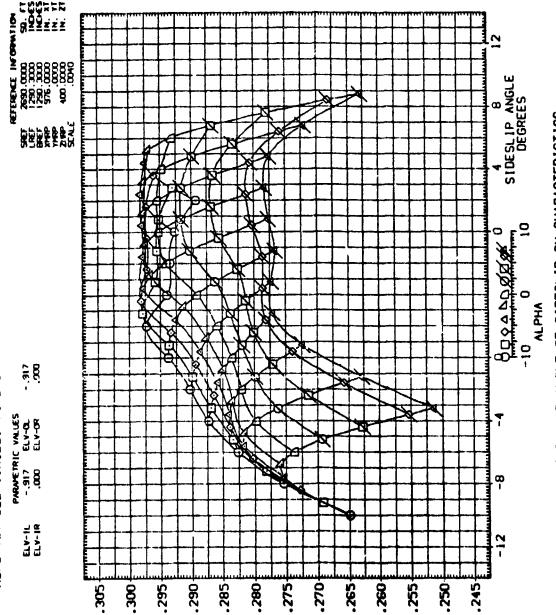


EFFECT OF ANGLE OF ATTACK AND ANGLE OF SIDESLIP ON CHARACTERISTICS

AXIAL FORCE COEFFICIENT, CA

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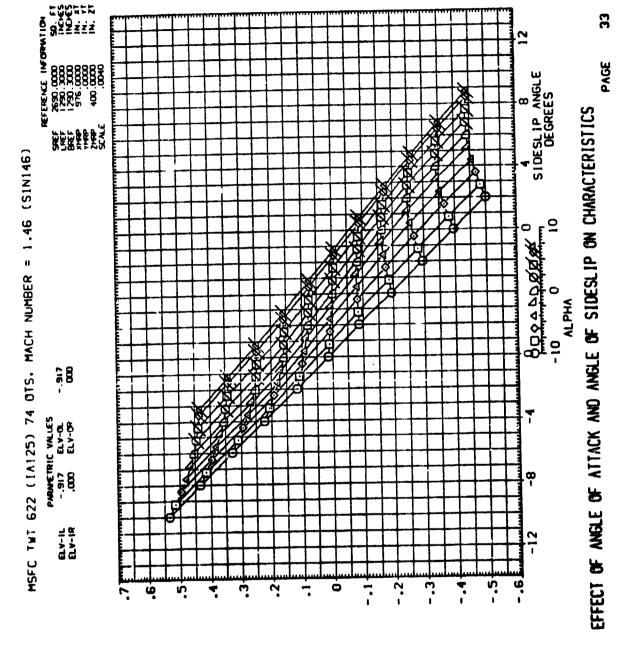
FOREBODY AXIAL FURCE COEFFICIENT,

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EFFECT OF ANGLE OF ATTACK AND ANCILE OF SIDESLIP ON CHARACTERISTICS

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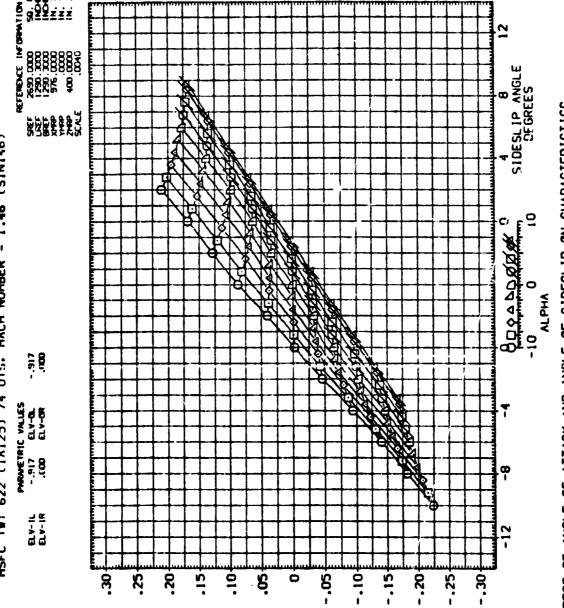


SIDE FORCE COEFFICIENT. CY

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MSFC TWI 622 (1A125) 74 0TS. MACH NUMBER = 1.46 (SIN146)



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EFFECT OF ANGLE OF ATTACK AND ANGLE OF SIDESLIP ON CHARACTERISTICS

(SIXV AGOS) AVMING MOMENT COEFFICIENT, CYN

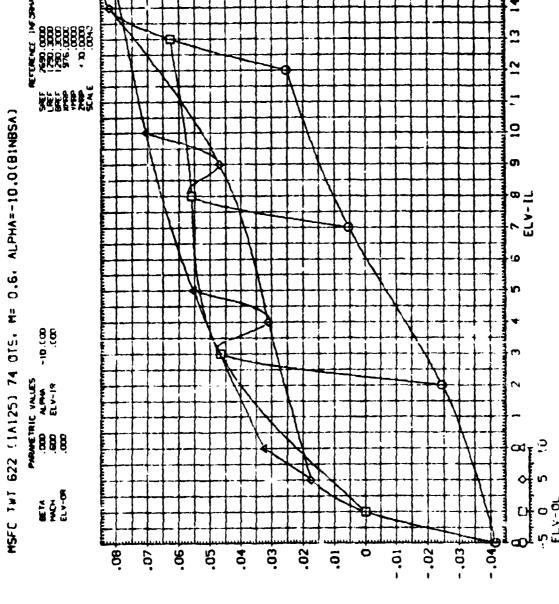
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ROLLING MOMENT COEFFICIENT, CBL

(BODA VXIZ)

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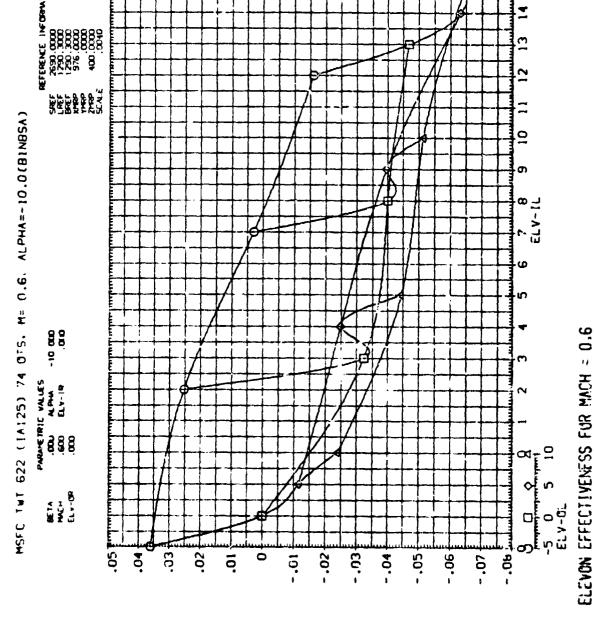
INCREMENTAL MORMAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCM

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ELEVON EFFECTIVENESS FOR MACH = 0.6

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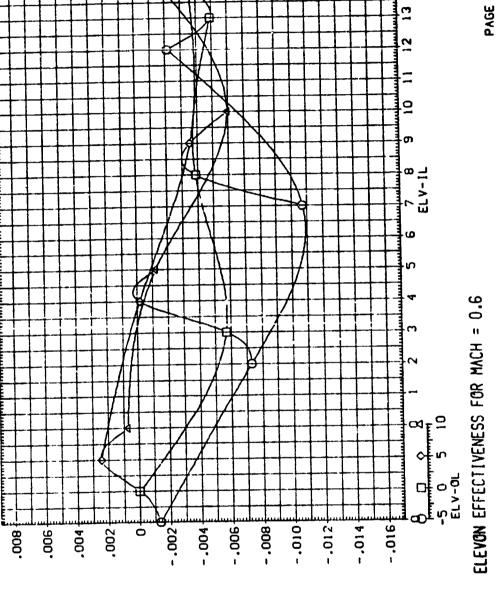


INCREMENTAL PITCHING MOMENT COEFFICIENT DUE 10 ELEVON DEFLECTION, DCLM

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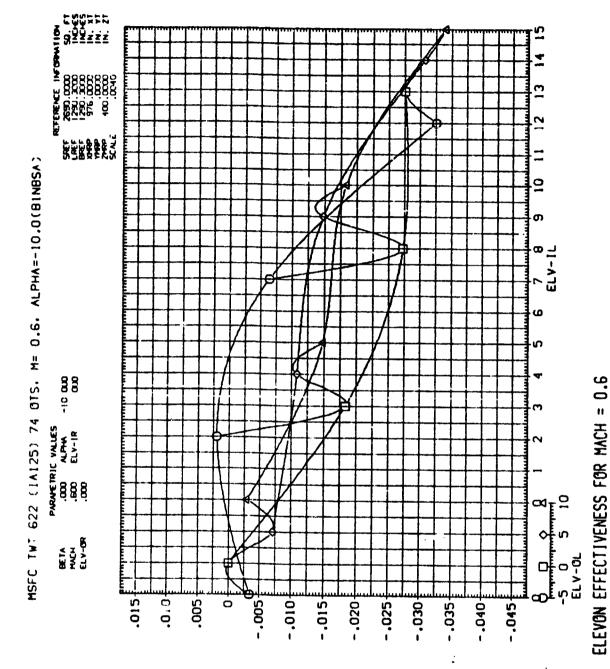
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INCREMENTAL AXIAL FORCE COEFFICIENT OUE TO ELEVON DEFLECTION. DCA

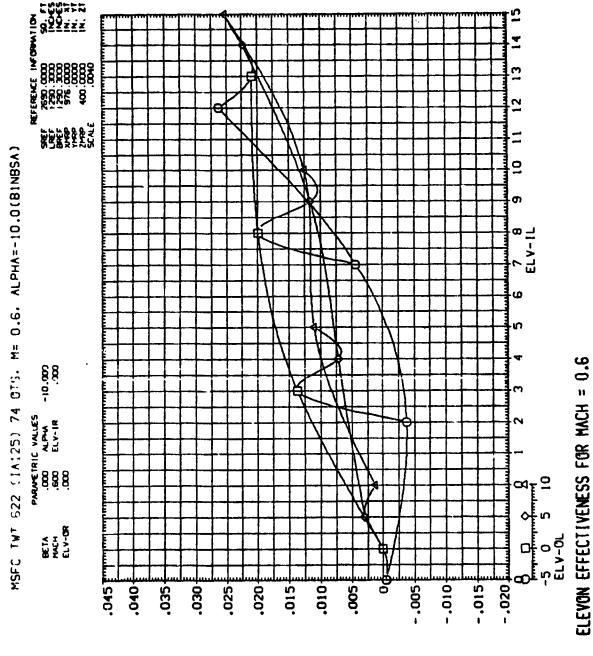
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INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT. DCAF



INCREMENTAL SIDE FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCY

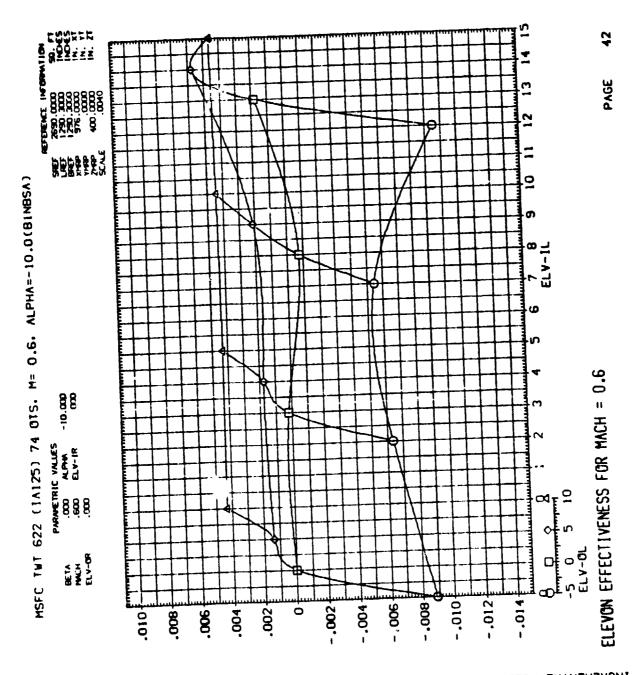
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INCREMENTAL YAMING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION. OCYN

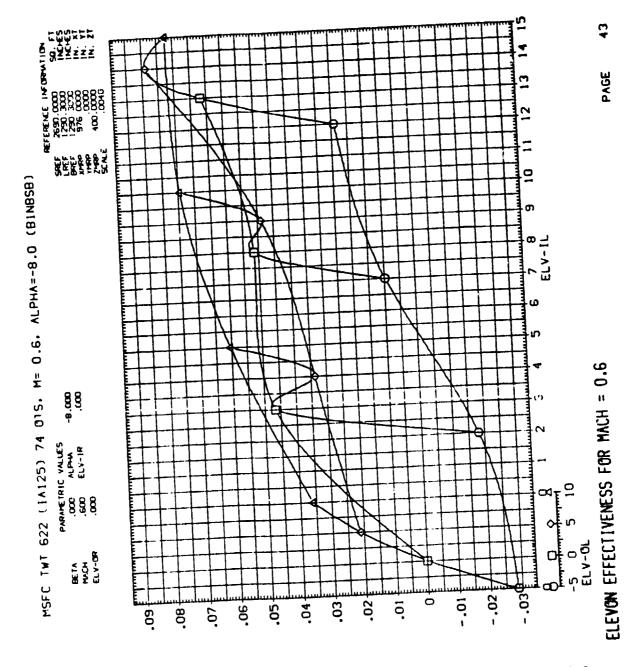
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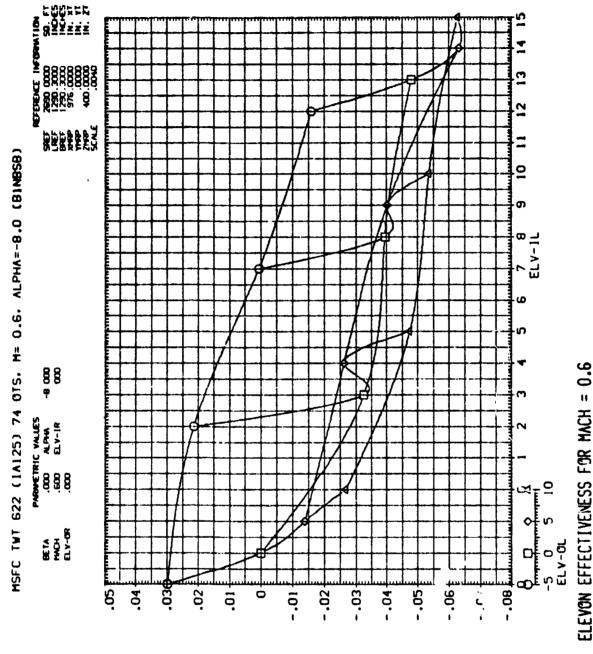
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INCREMENTAL ROLLING MOMENT COEFFICIENT DUE TO ELEVON DELLECTION, DCBL



INCREMENTAL NORMAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCN

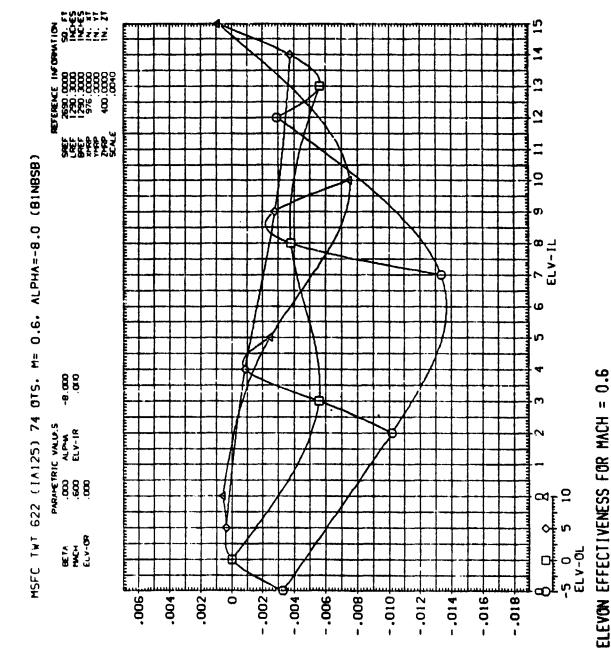




INCREMENTAL PITCHING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION.

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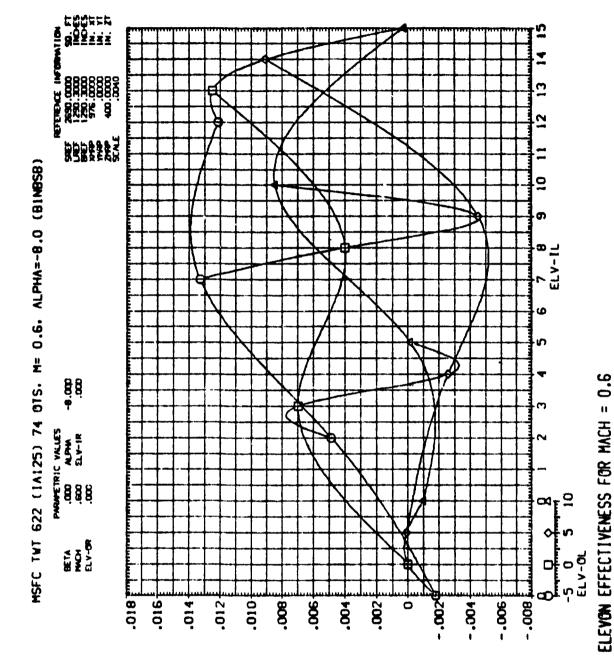


INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION, DCA

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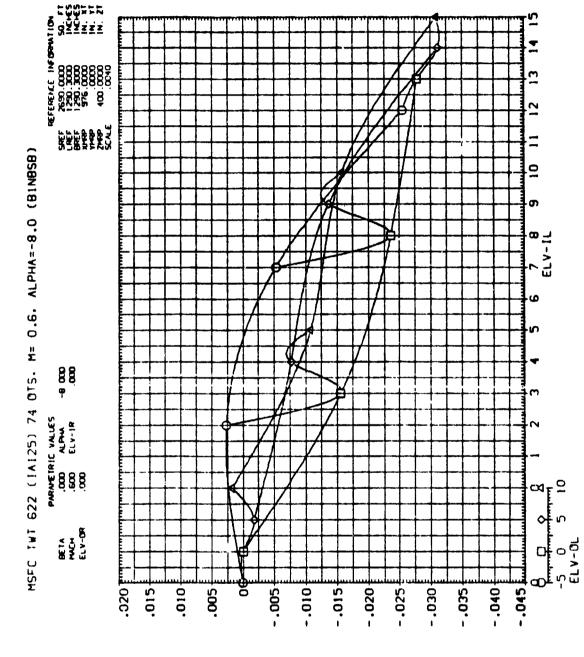
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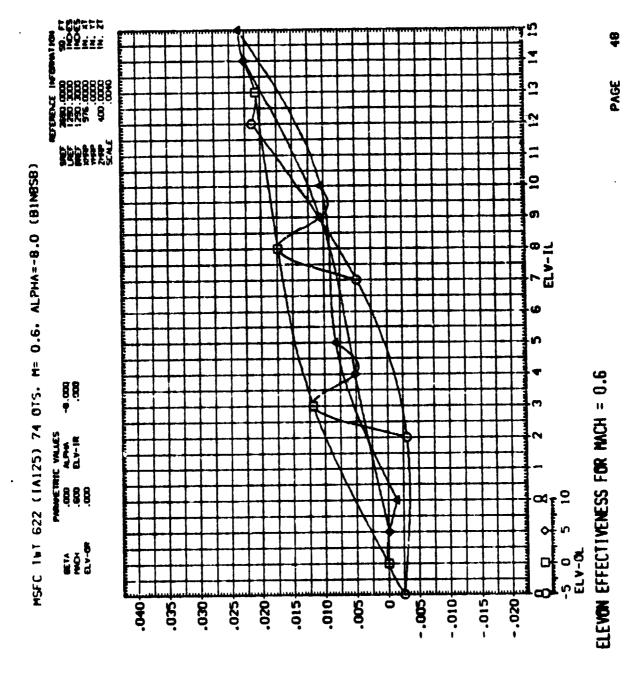
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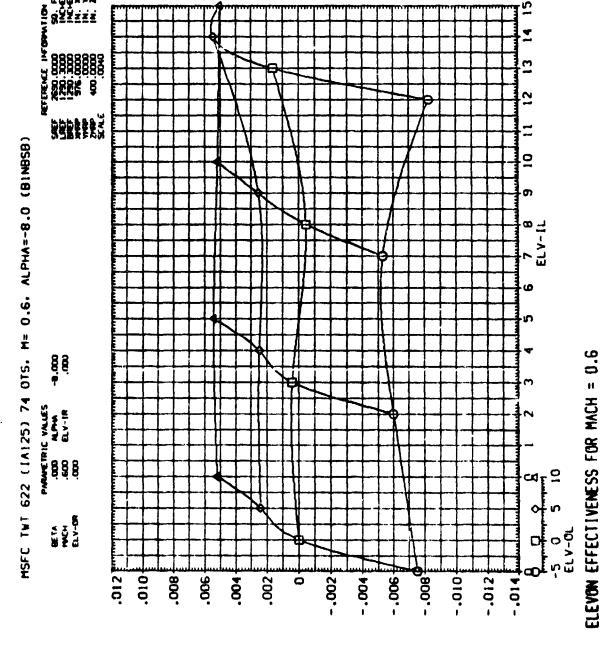
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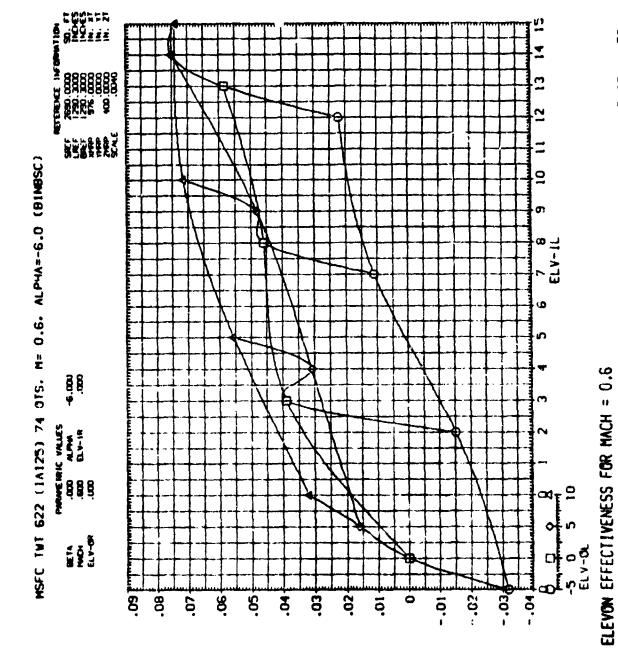


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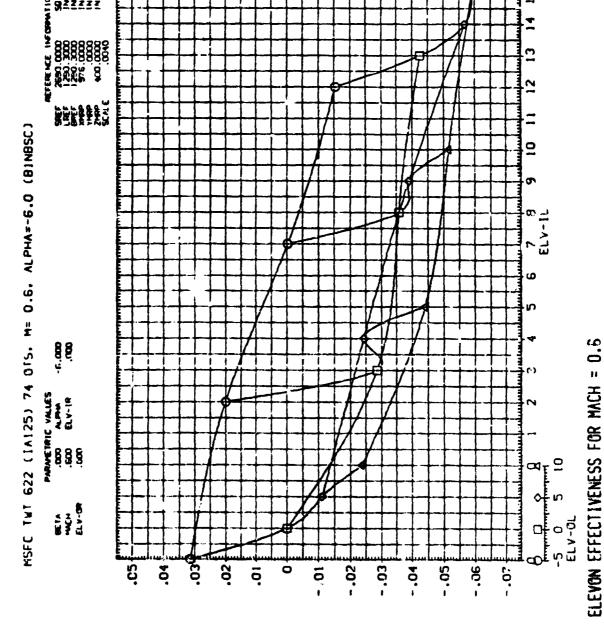
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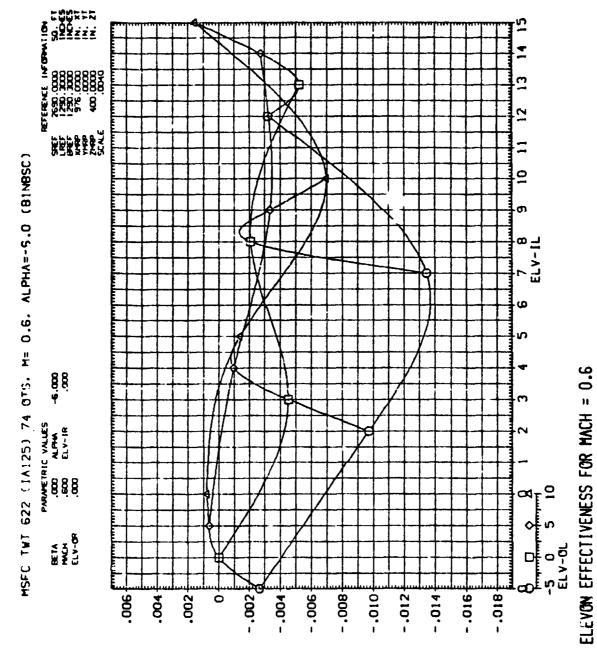
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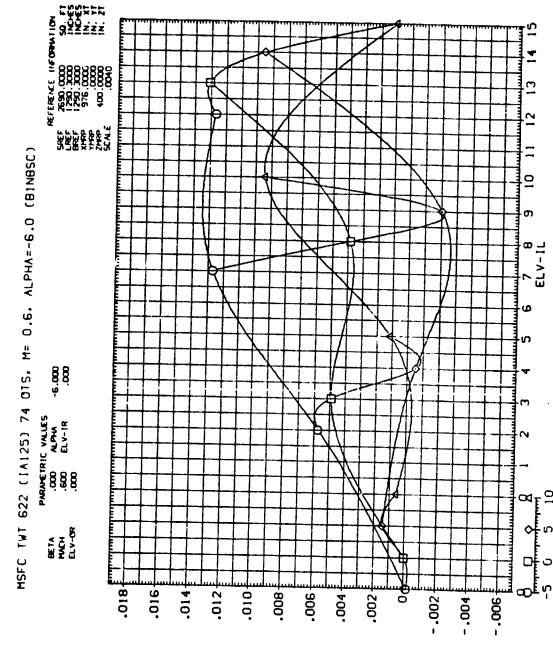


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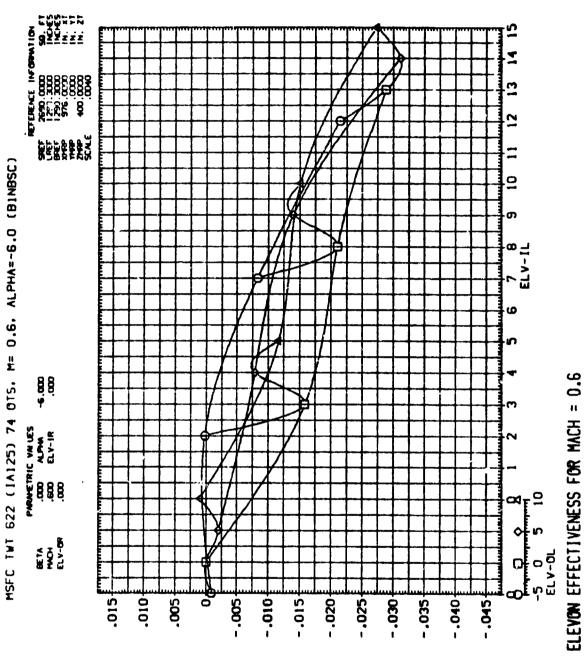


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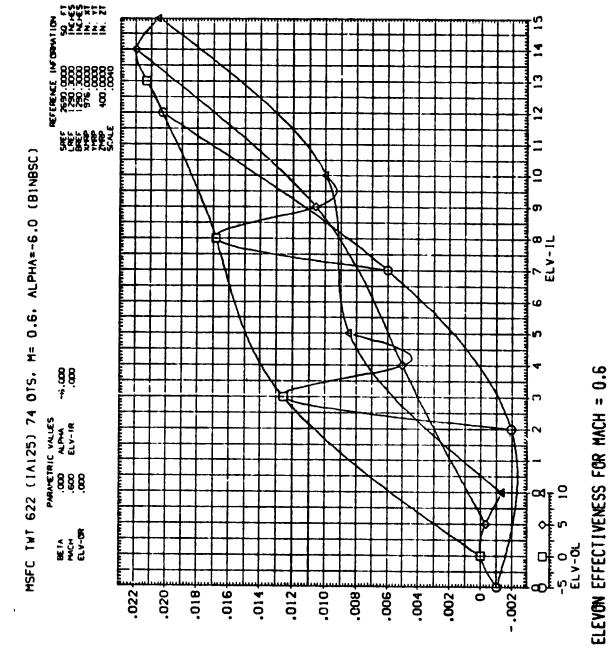


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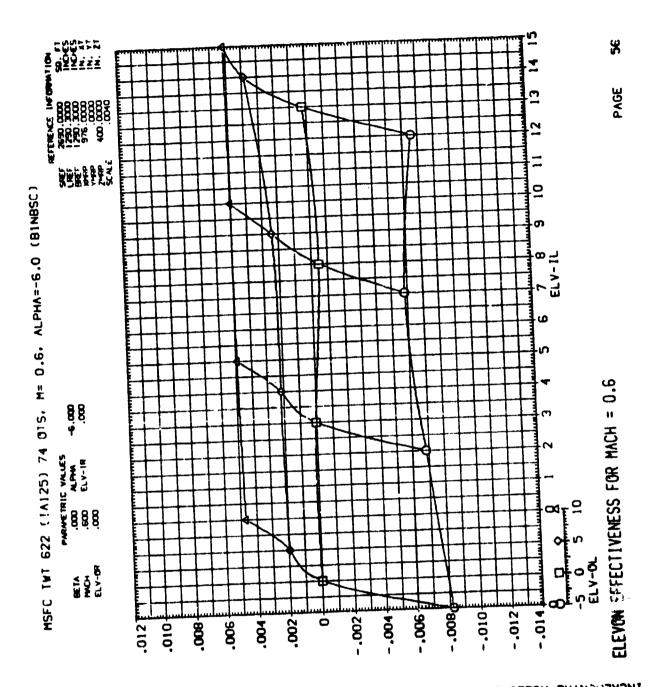
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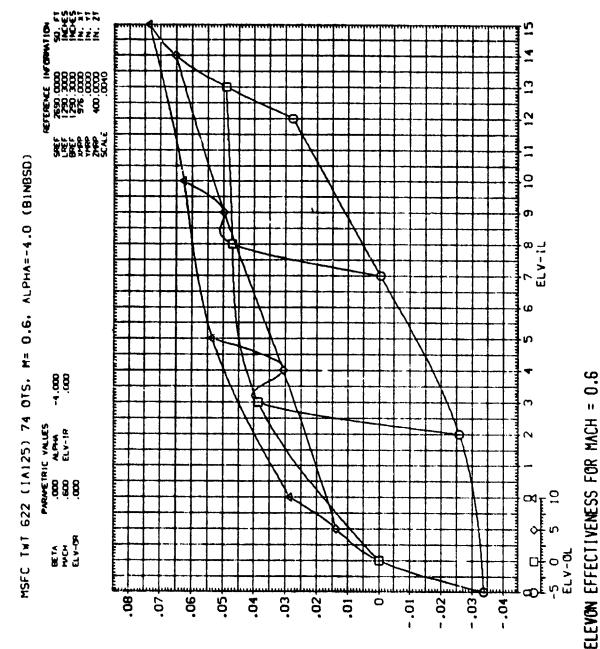


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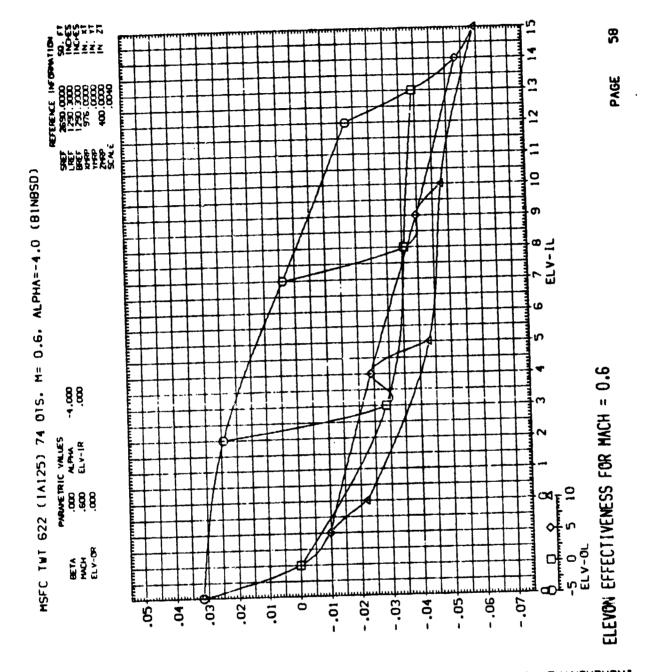


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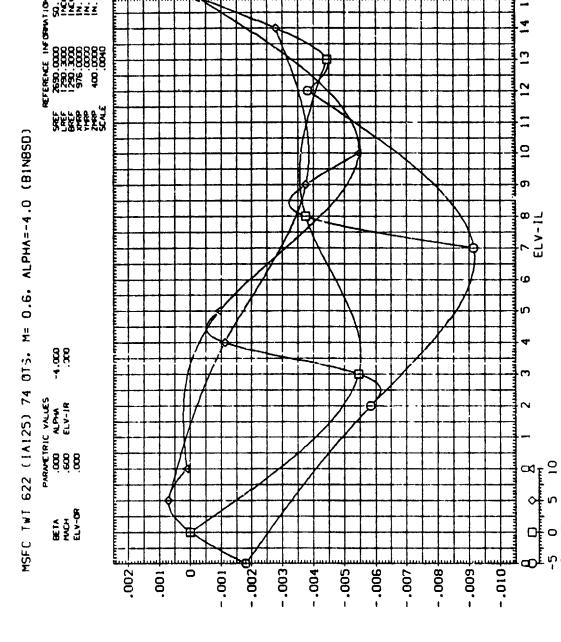
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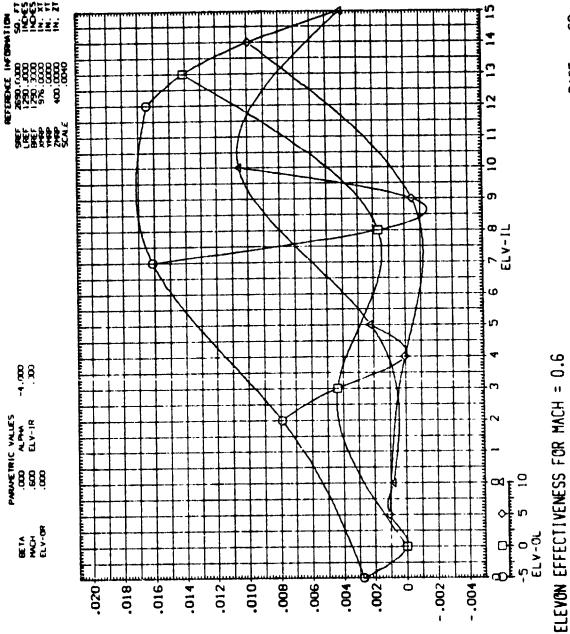
INCREMENTAL PITCHING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION, DCLM

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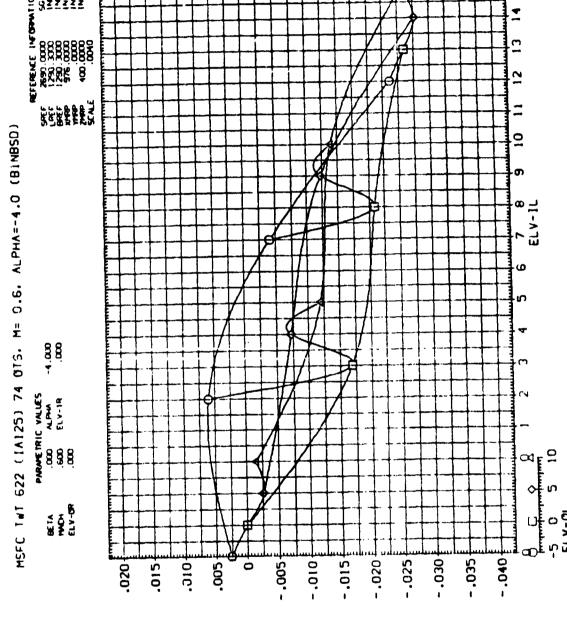
INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCA





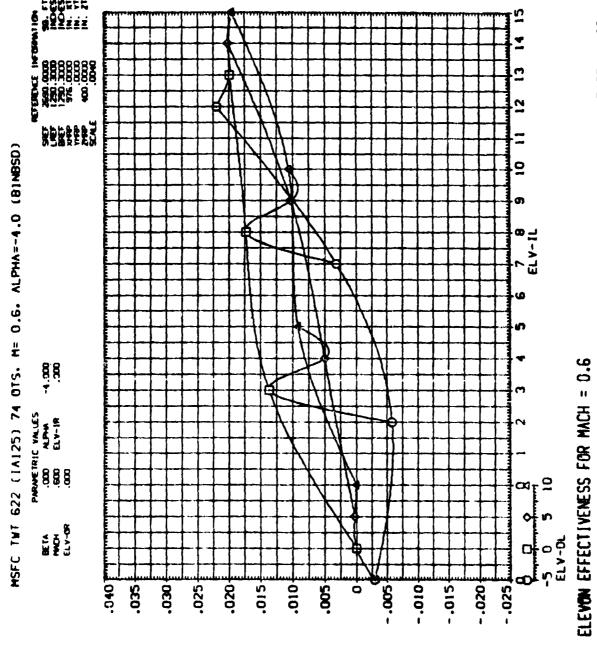
MSFC TWT 622 (IA125) 74 0TS, M= 0.6. ALPHA=-4.0 (BINBSD)

INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF



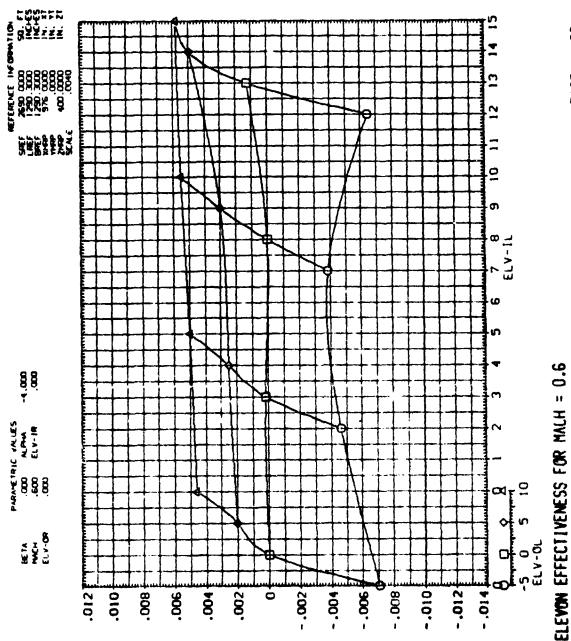
INCREMENTAL SIDE FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCY

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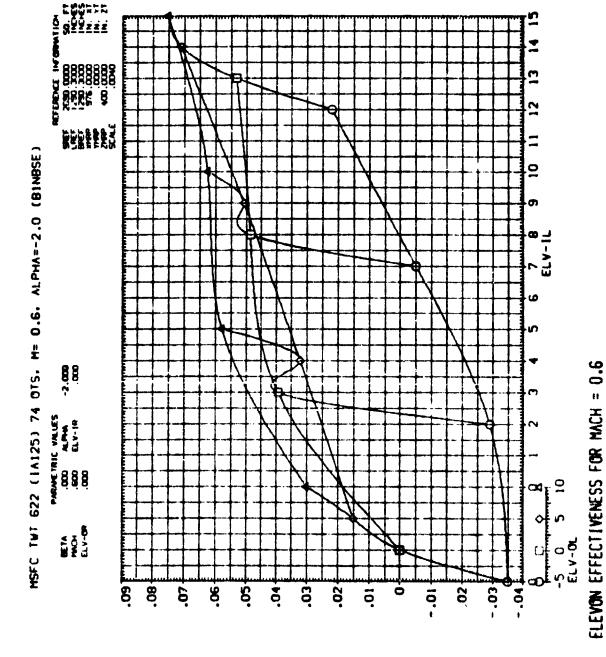
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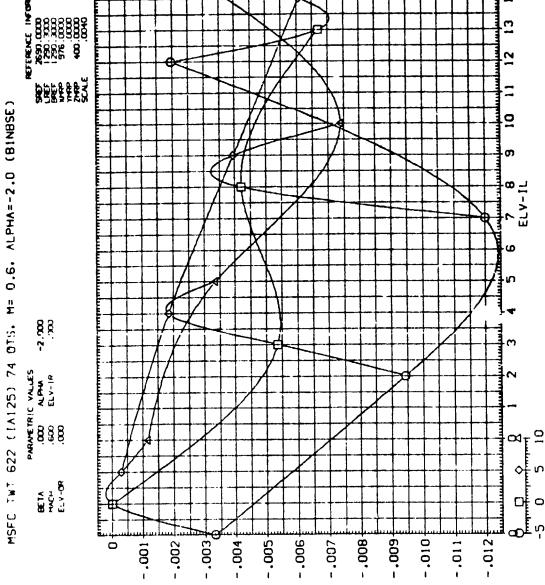
INCREMENTAL ROLLING MOMENT COEFFICIENT DUE TO ELEVON DELLECTION. DCBL

MSFC 147 622 (1425) 74 013. M= 0.6. ALPHA=-4.0 (BINBSD)



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INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION, DCA

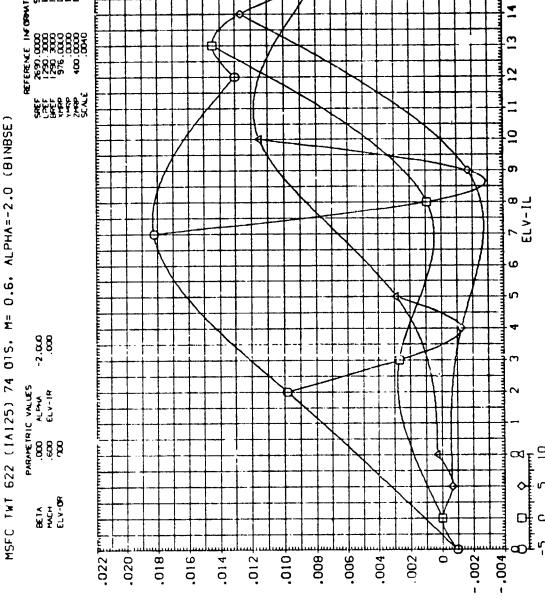
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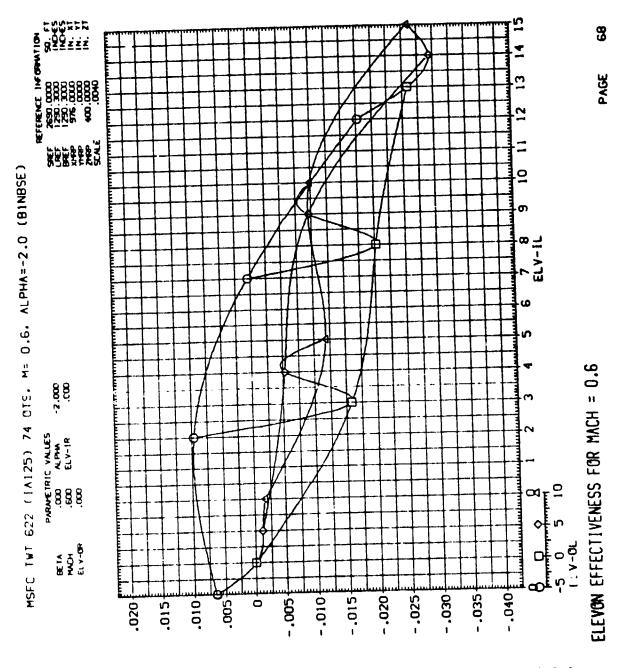
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ELEVON EFFECTIVENESS FOR MACH = 0.6

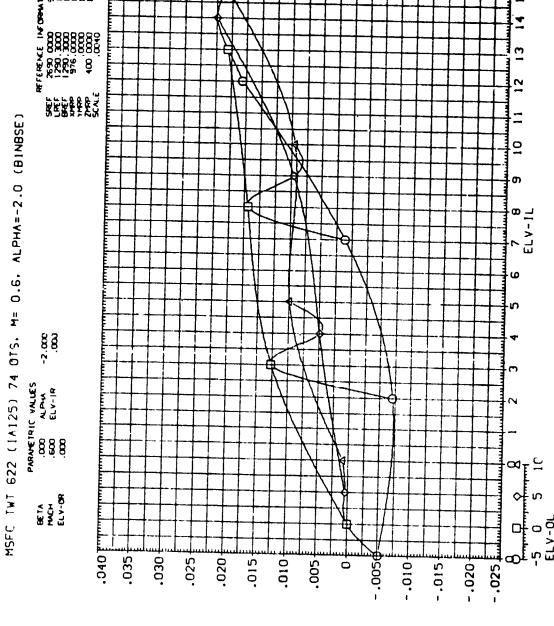




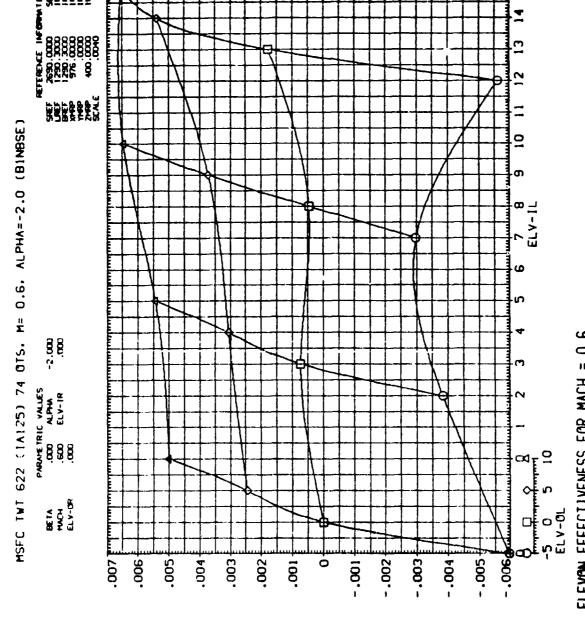
INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF



INCREMENTAL SIDE FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCY

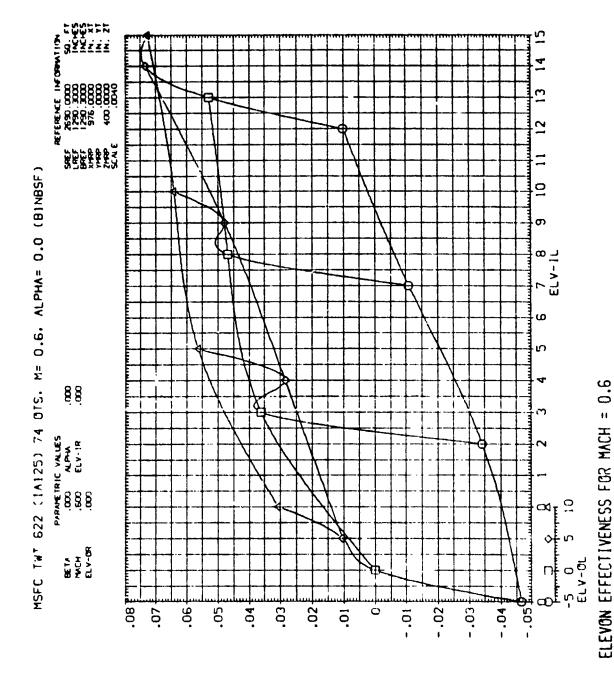


INCREMENTAL YAWING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION. DCYN



ELEVON EFFECTIVENESS FOR MACH = 0.6

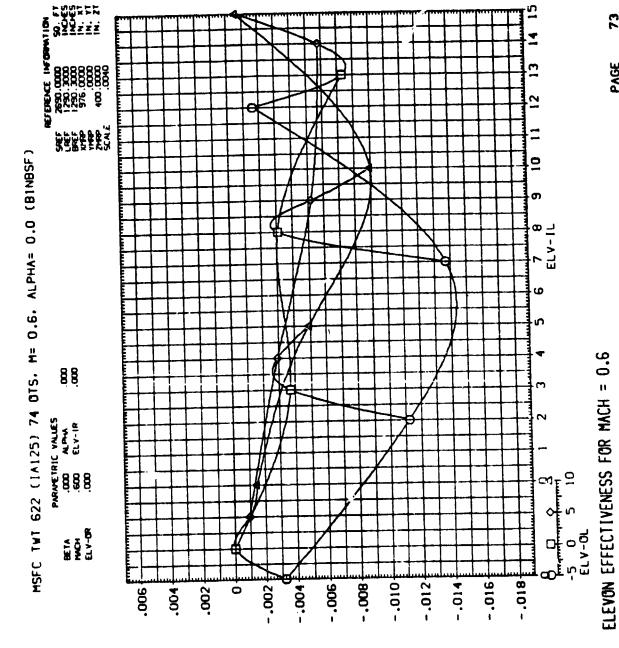
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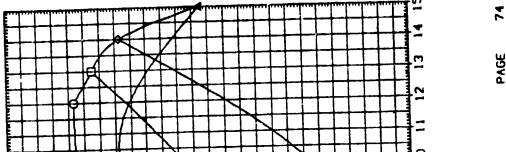
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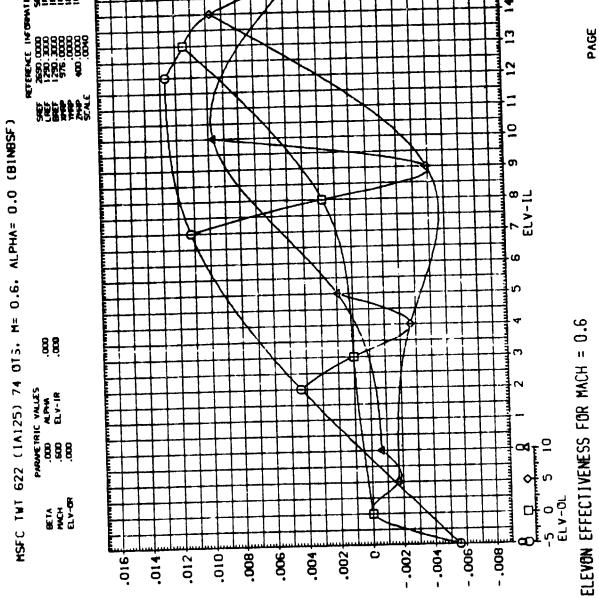
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72 PAGE SCALE SECTION MSFC TWT 622 (1A125) 74 0TS. M= 0.6. ALPHA= 0.0 (BINBSF) 2 7 8 ELV-1L ø ELEVON EFFECTIVENESS FOR MACH = 0.6 88 PARAYETRIC VALUES
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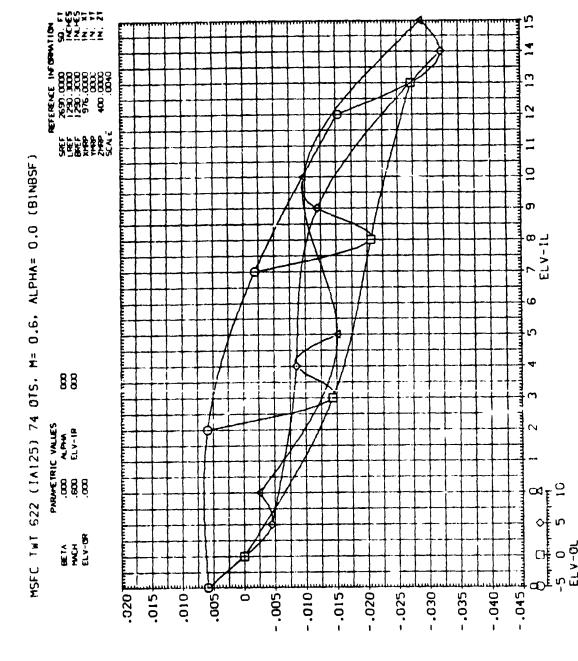


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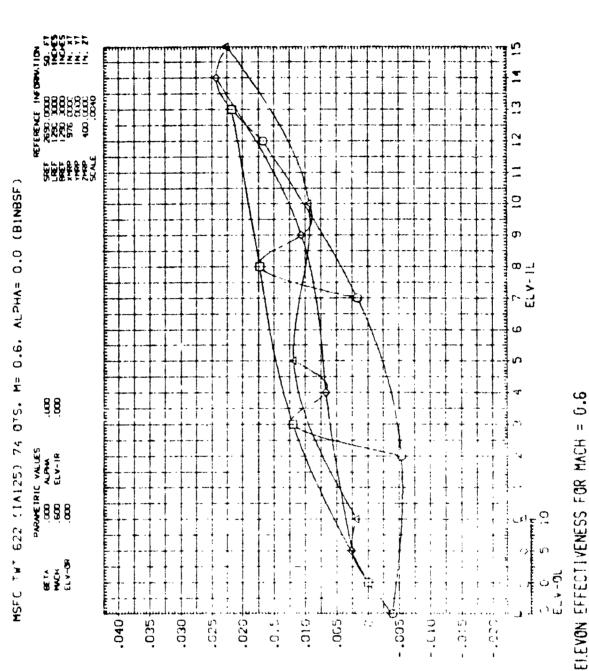


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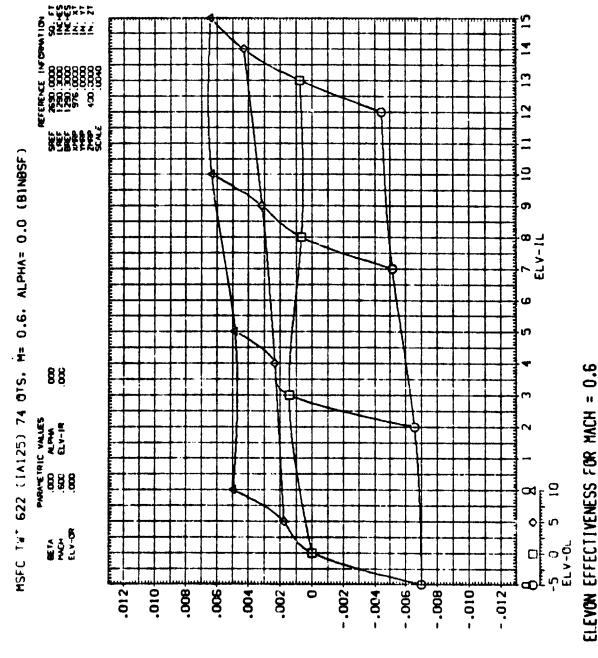


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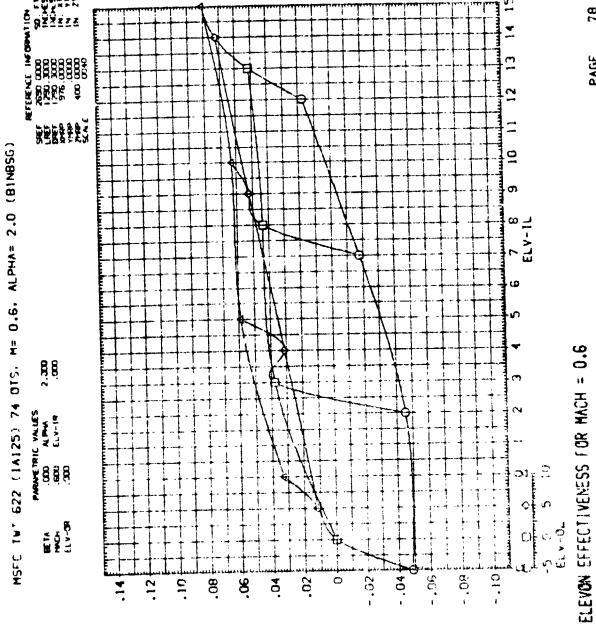
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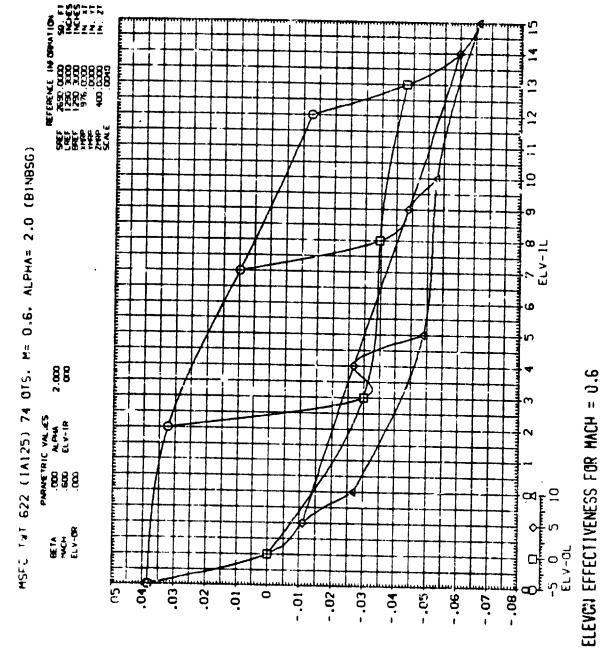
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INCREMENTAL ROLLING MOMENT COEFFICIENT DUE TO ELEVON DELLECTION. DCBL



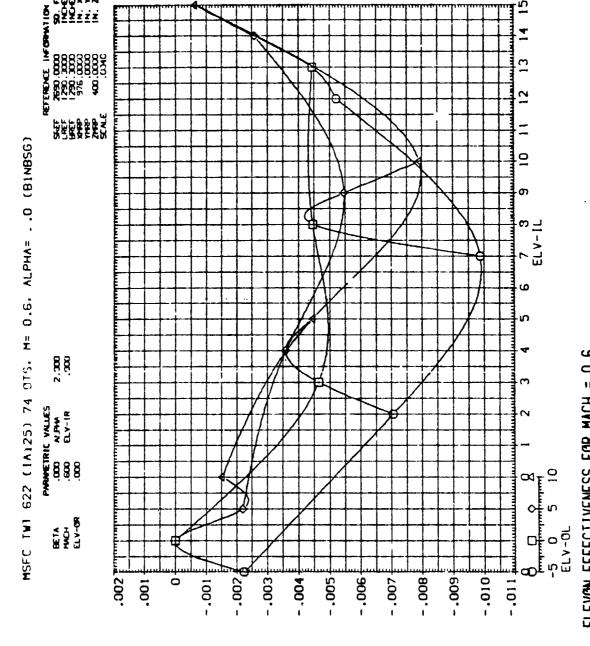


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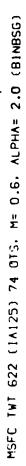


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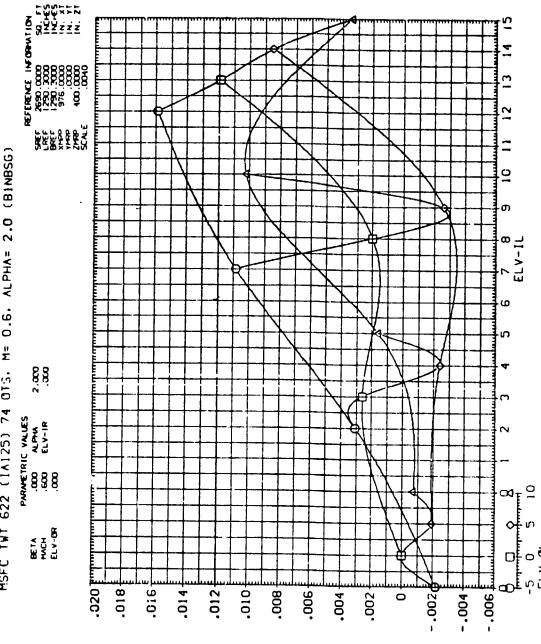
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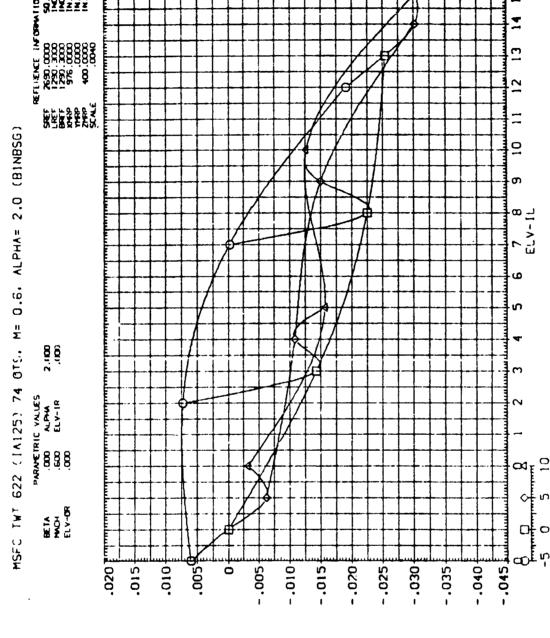
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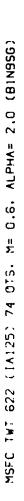
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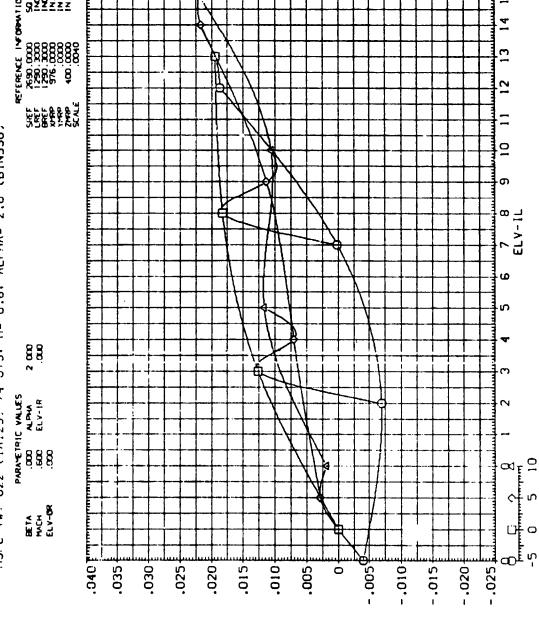


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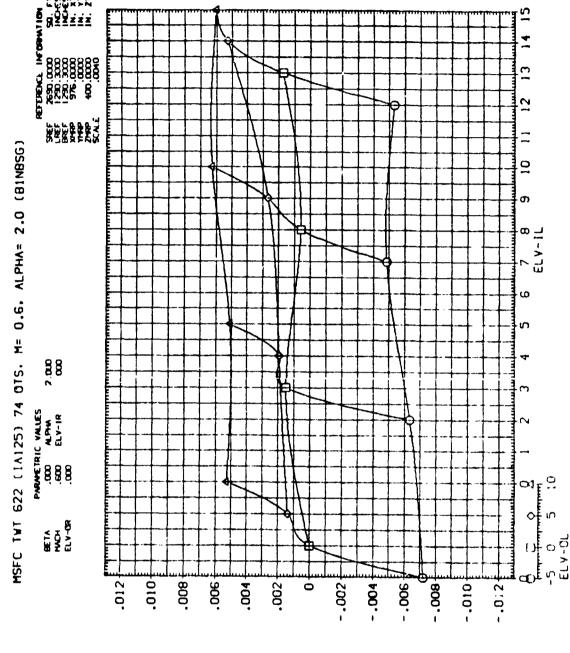


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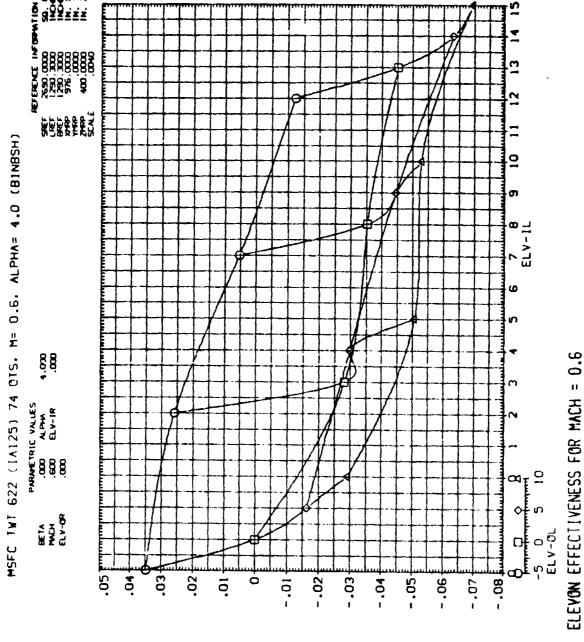
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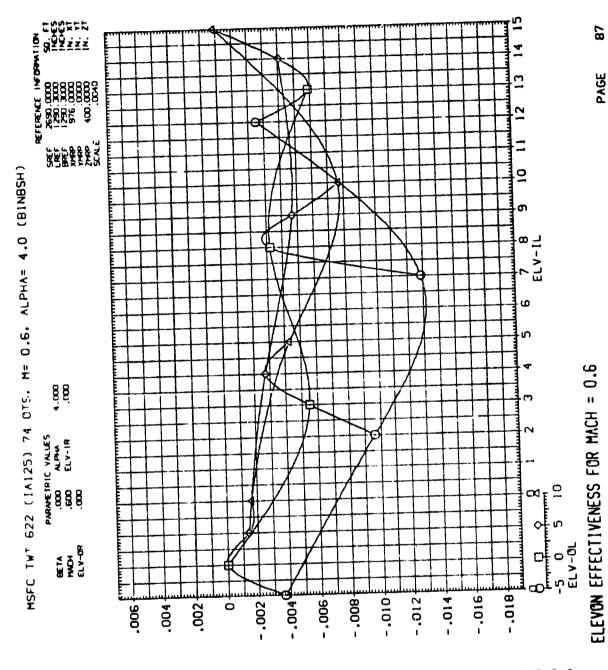
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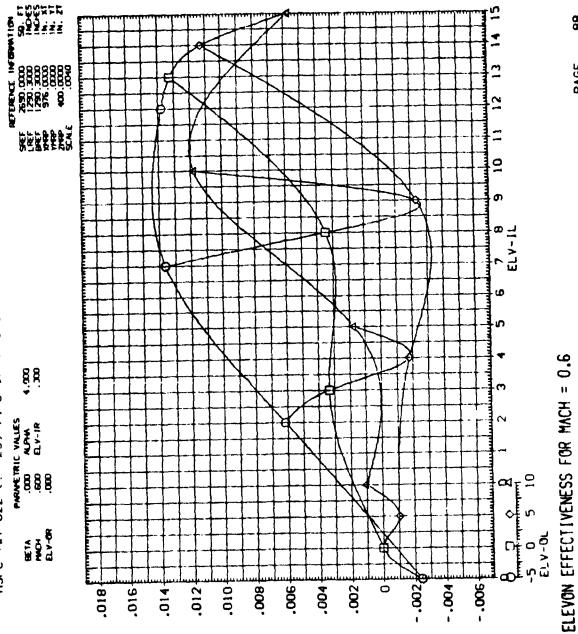


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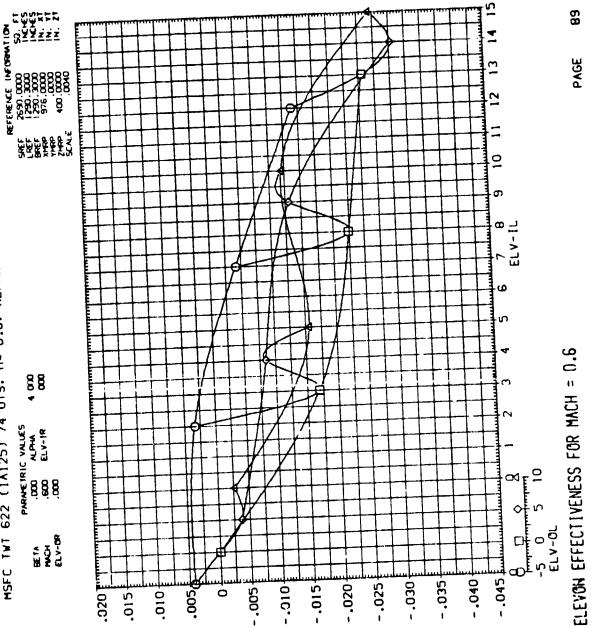
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INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF

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MSFC TWT 622 (1A125) 74 0TS. M= 0.6. ALPHA= 4.0 (BINBSH)

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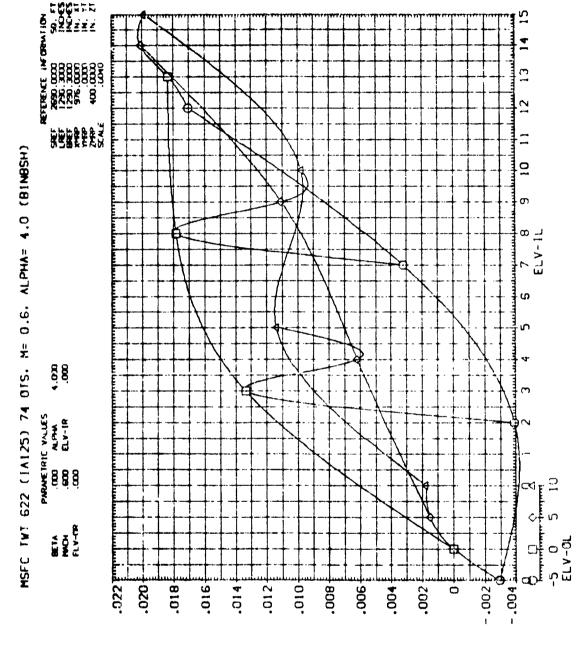
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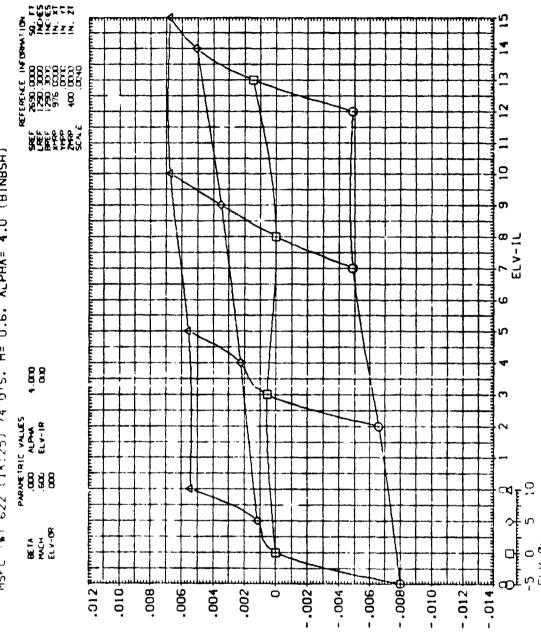
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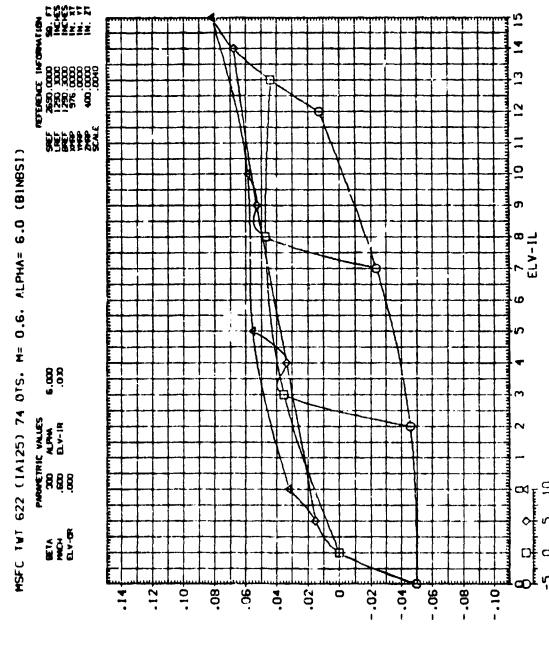
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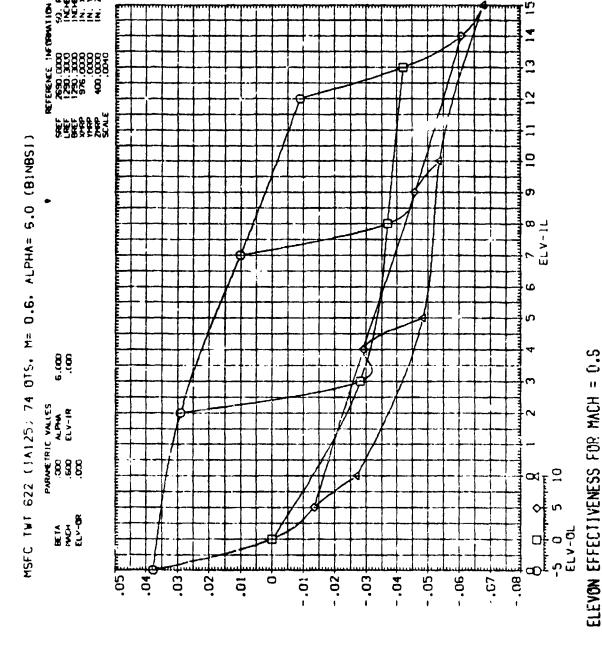
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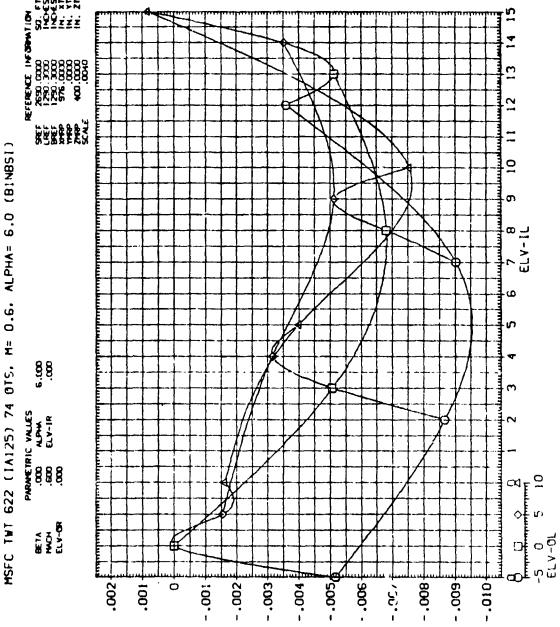
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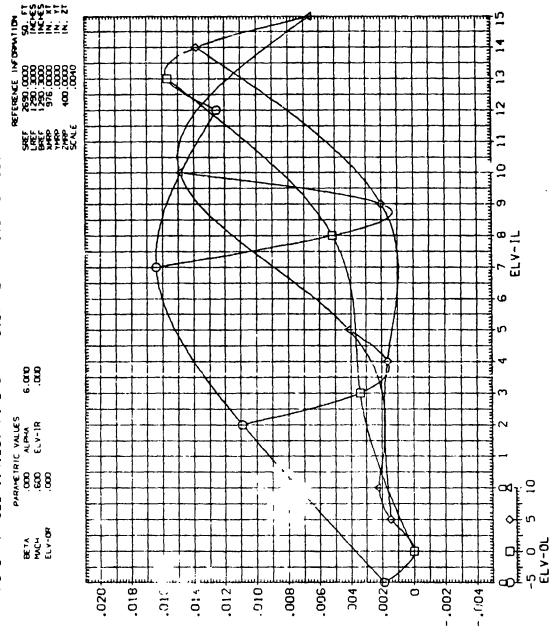
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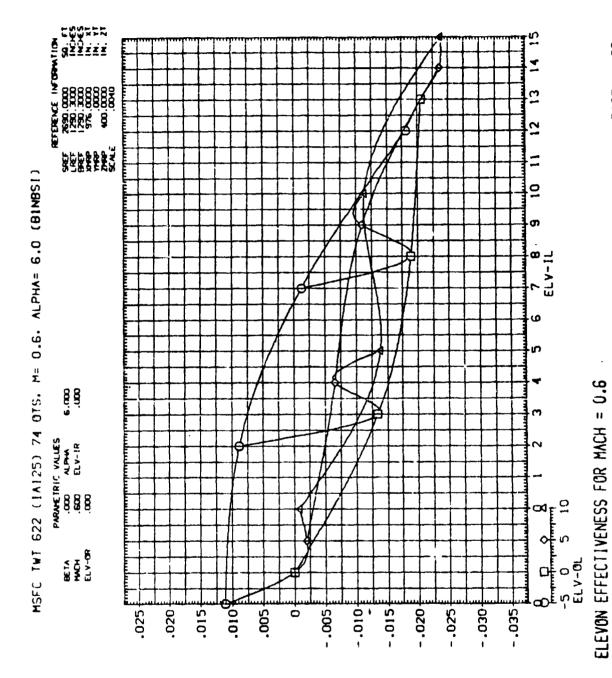
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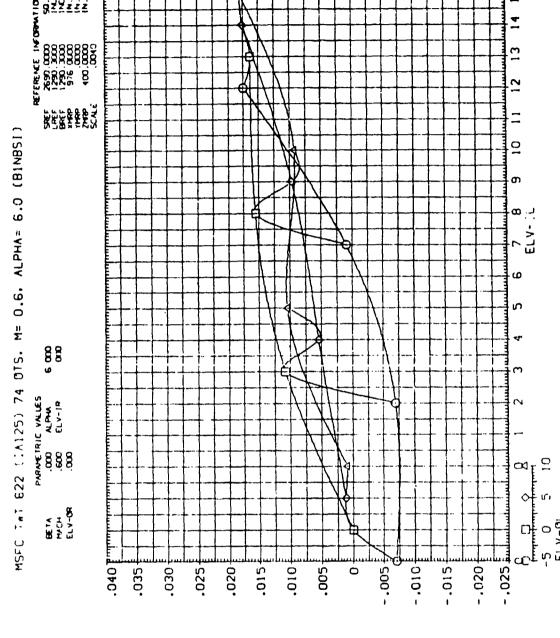


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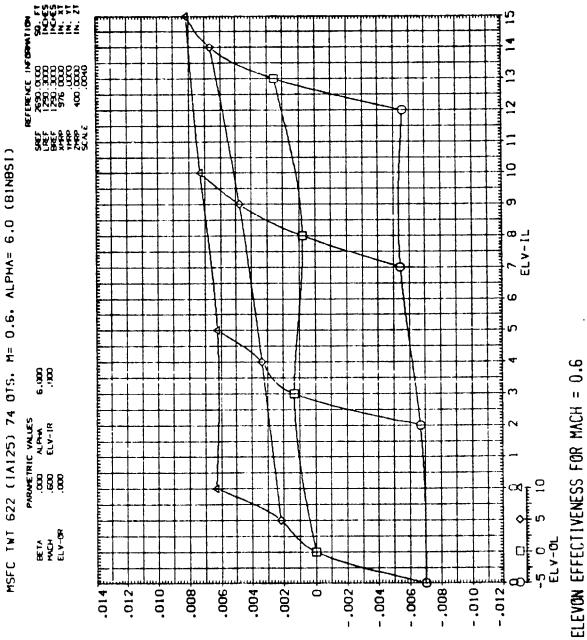
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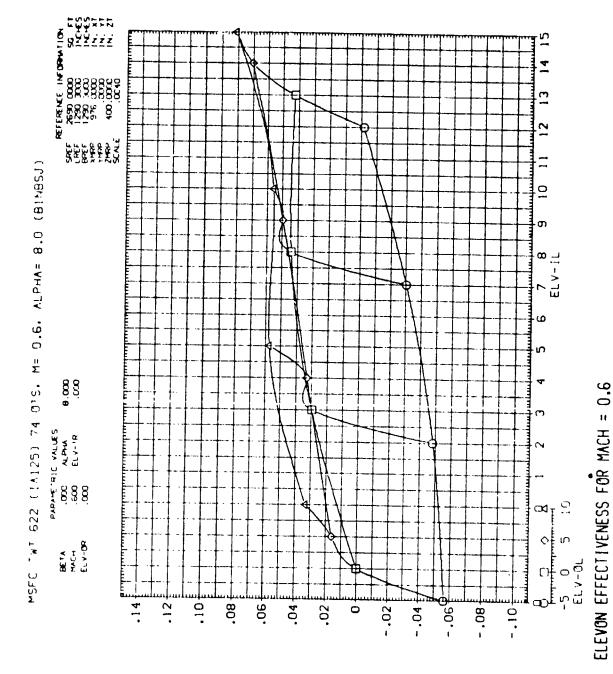
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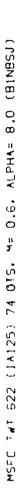


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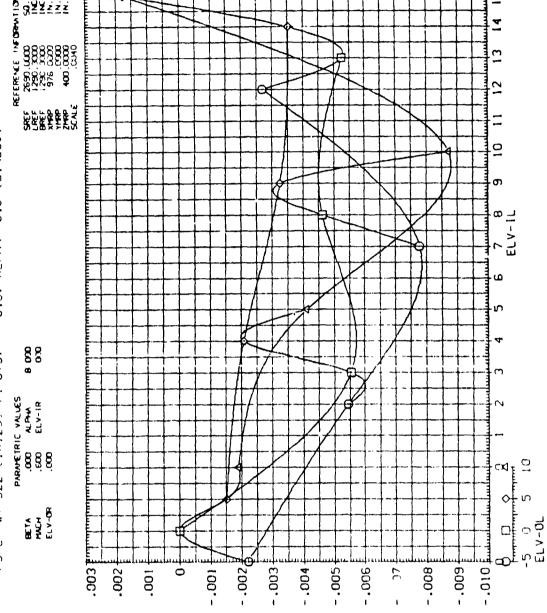
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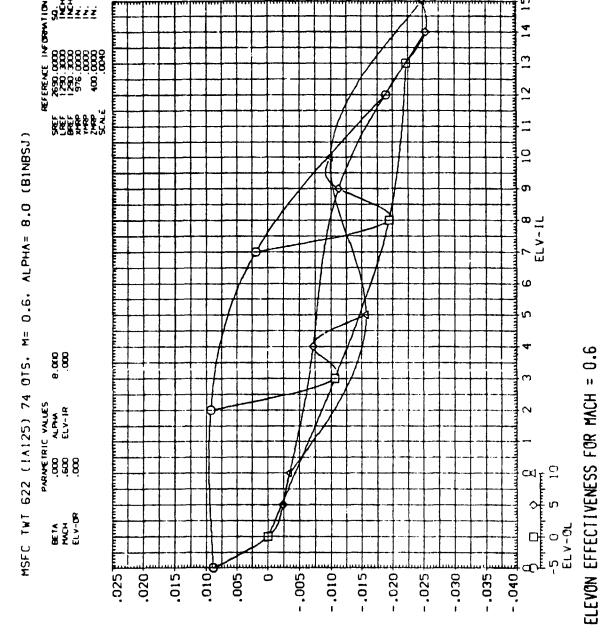
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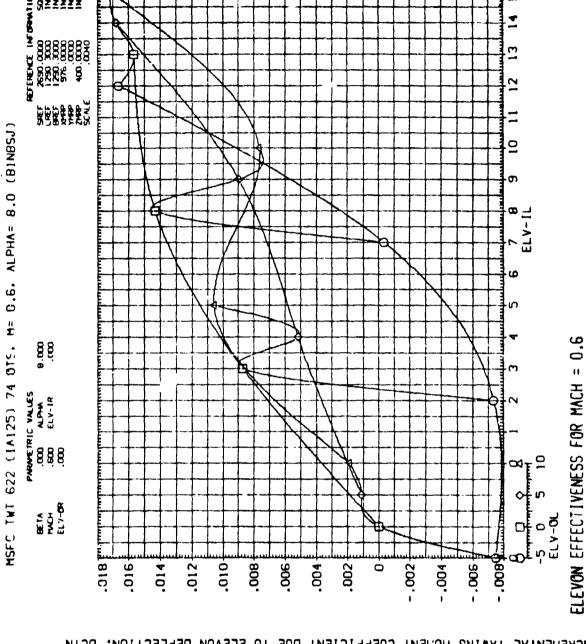
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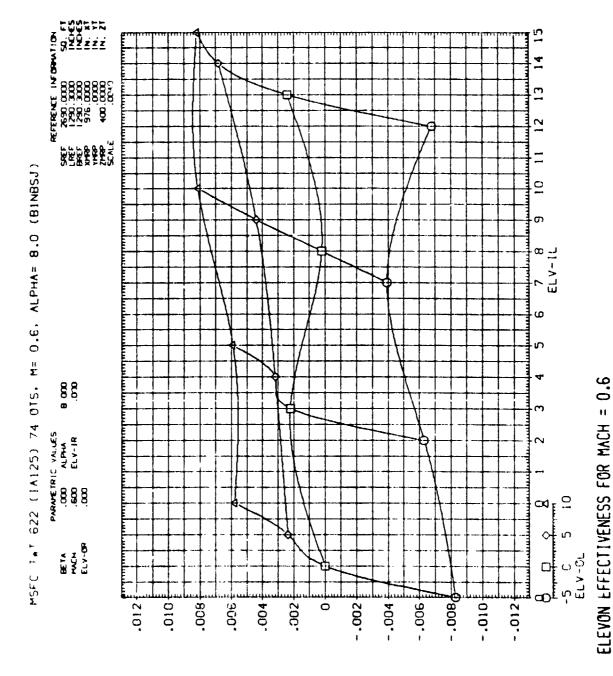
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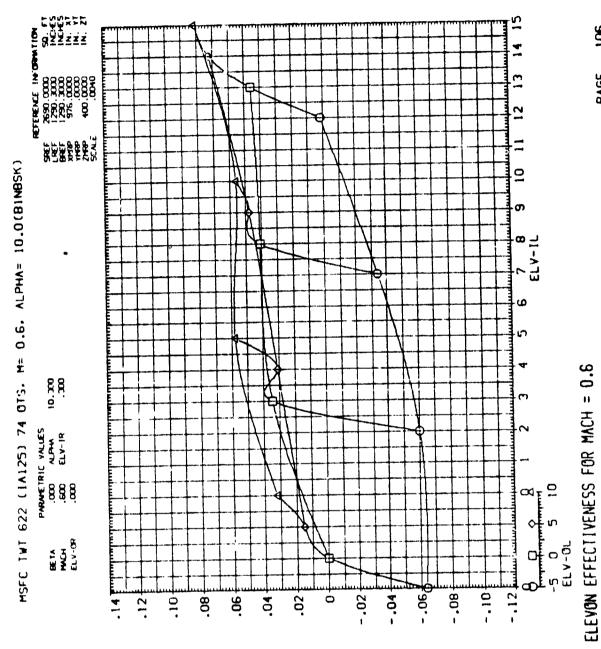


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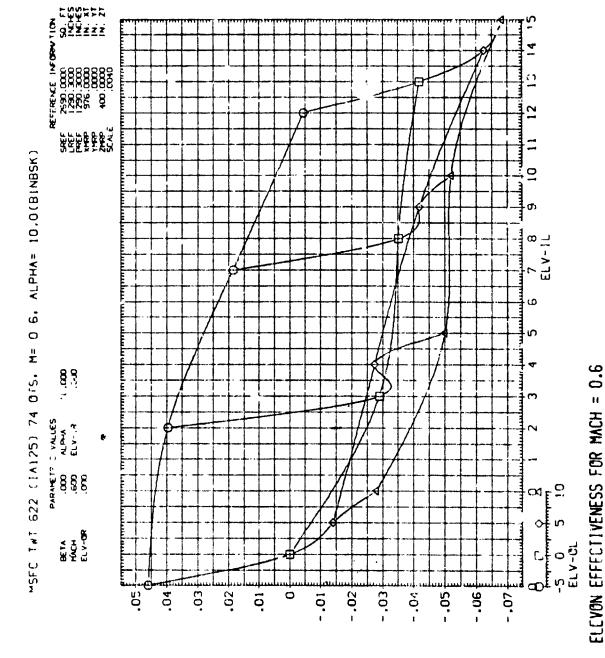
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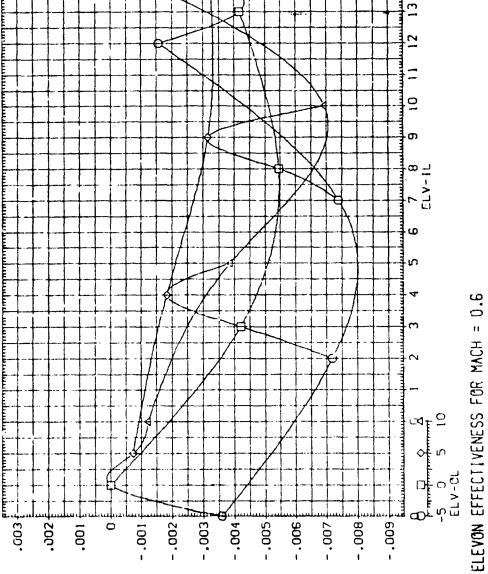
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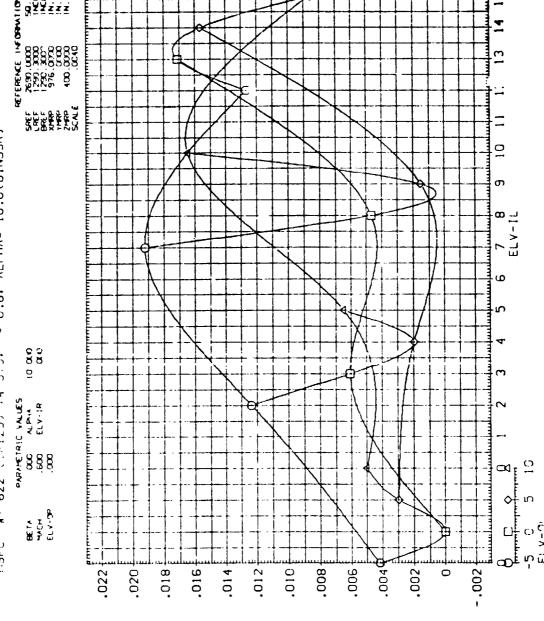
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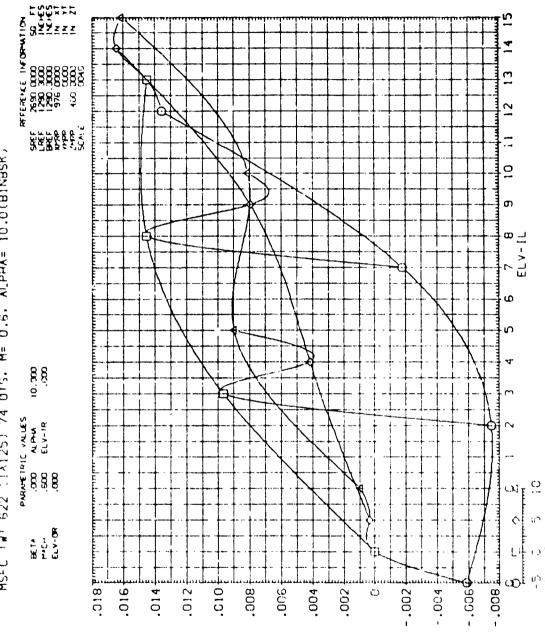
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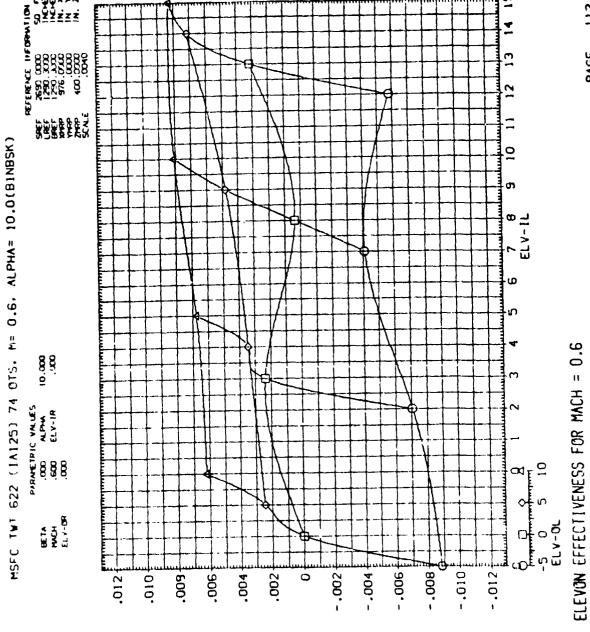
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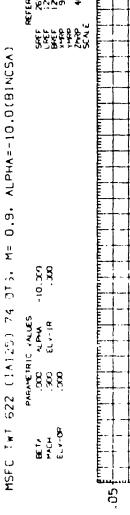
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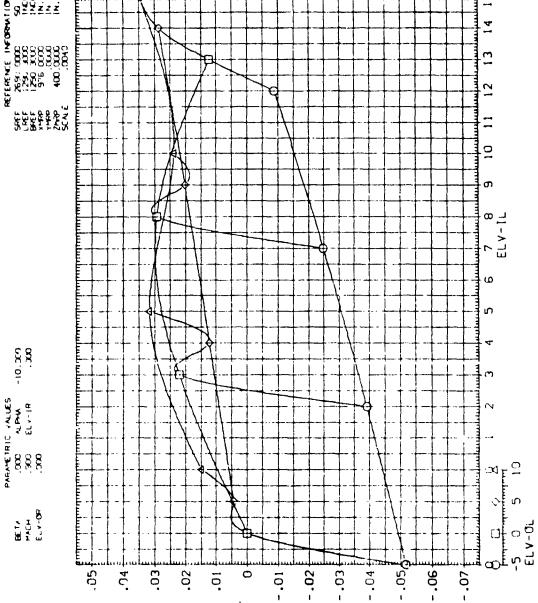


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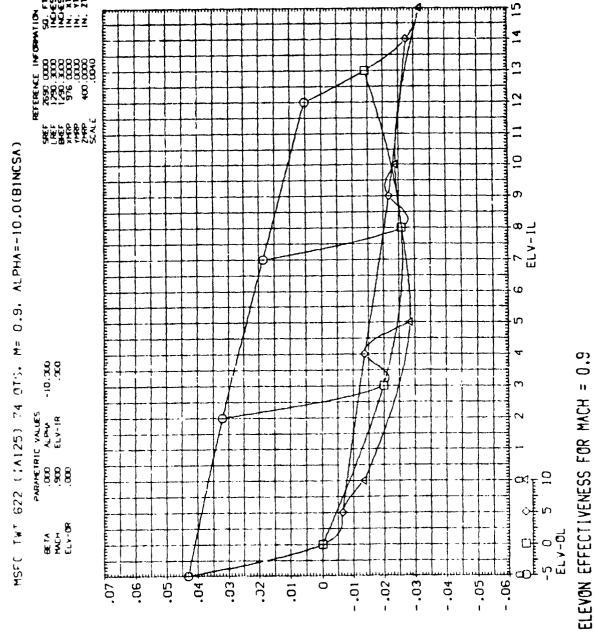


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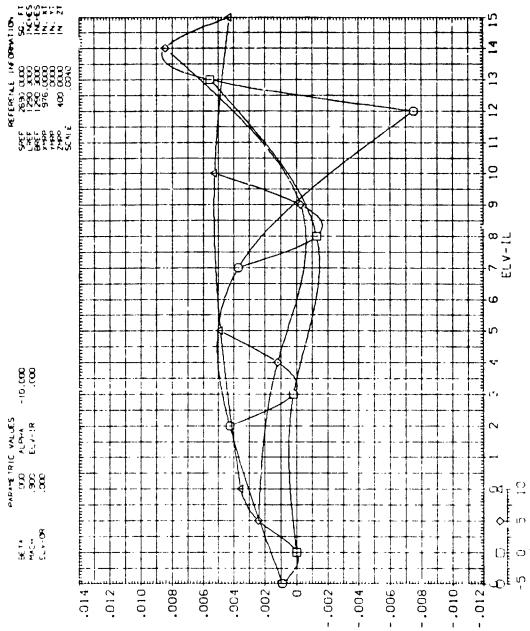
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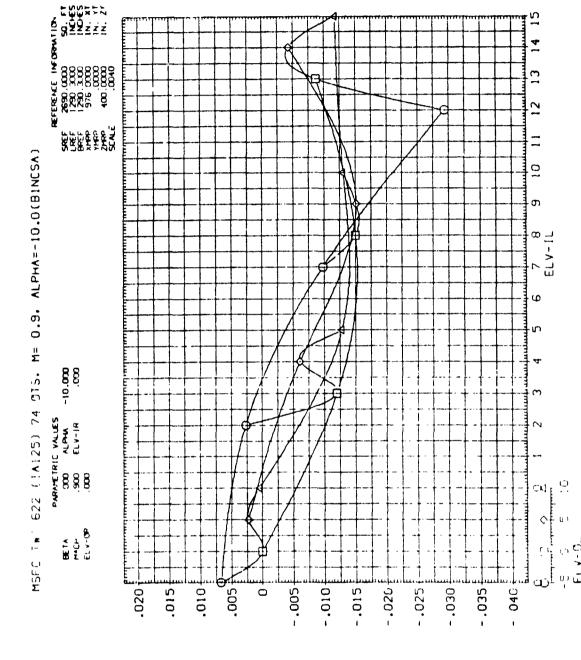
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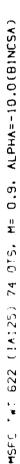
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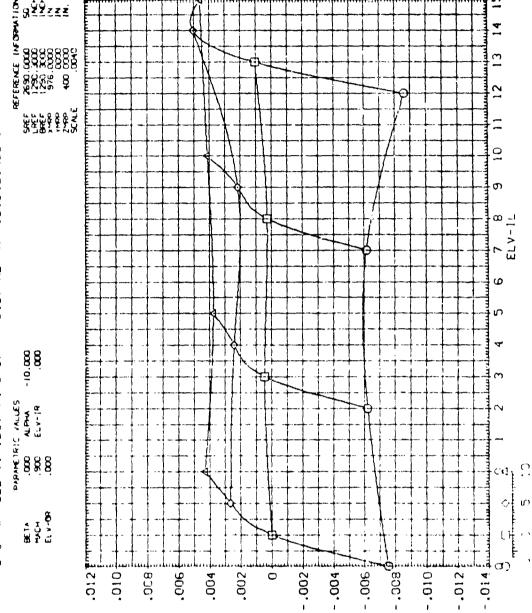
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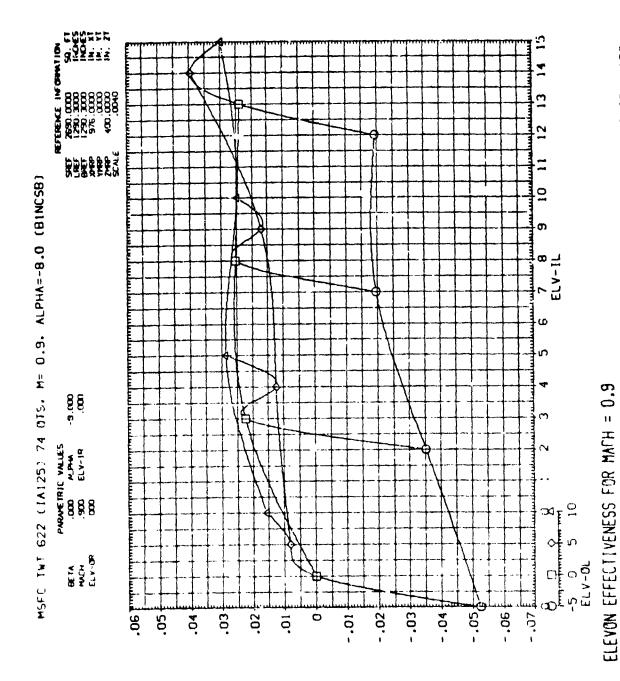


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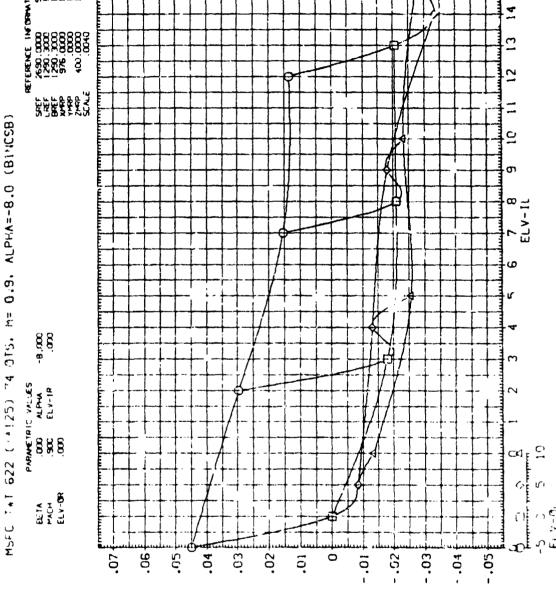


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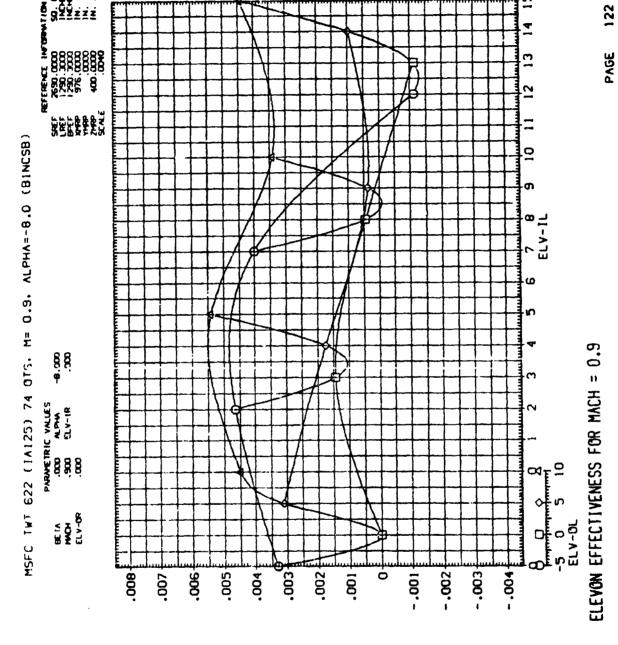


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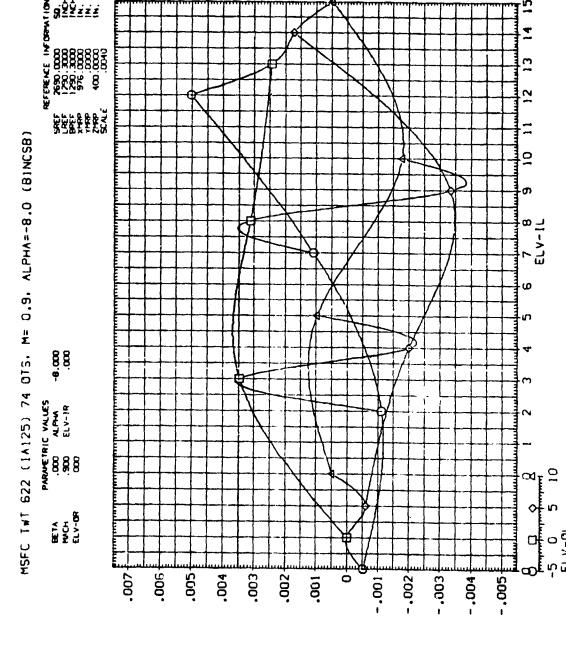
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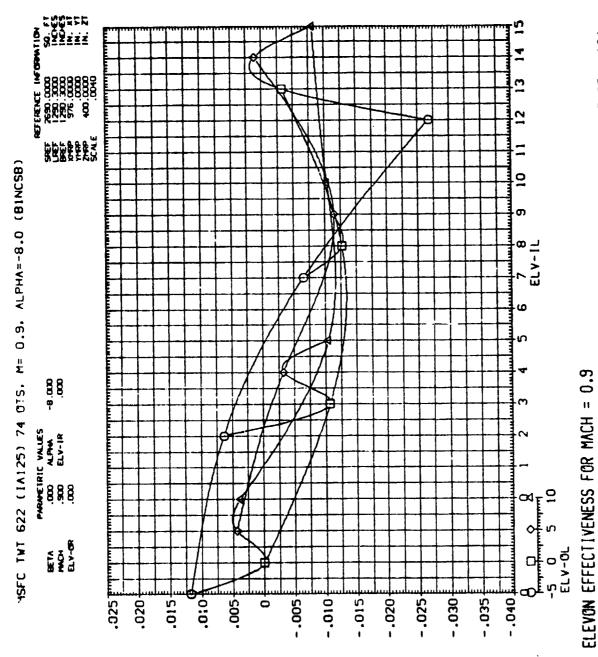


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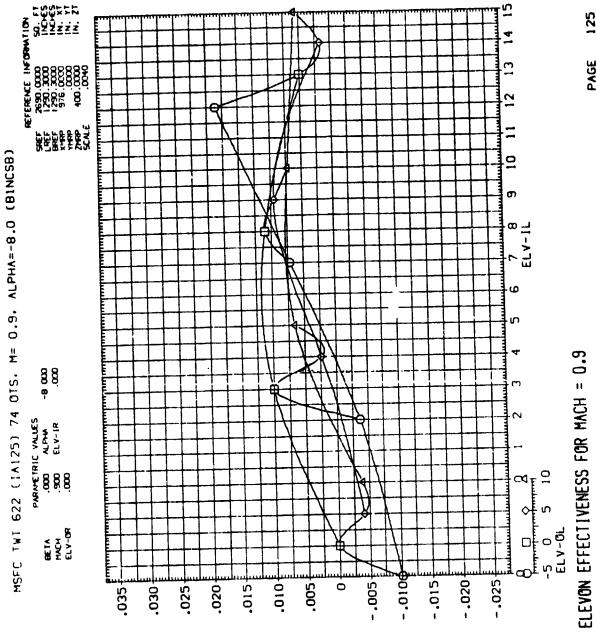
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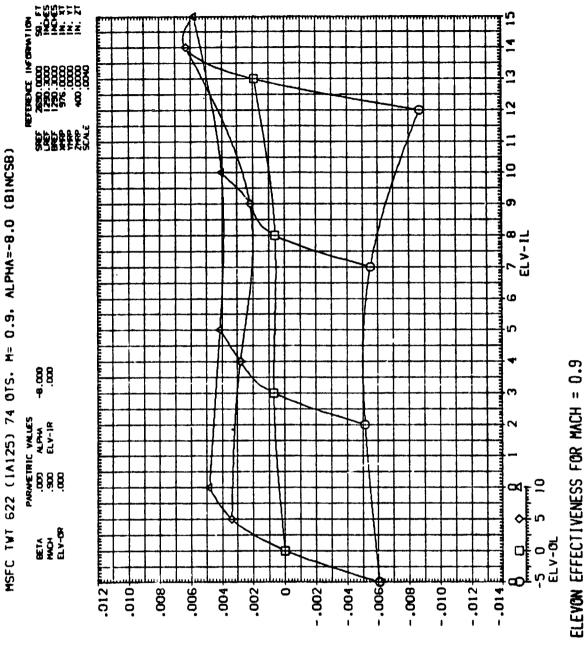
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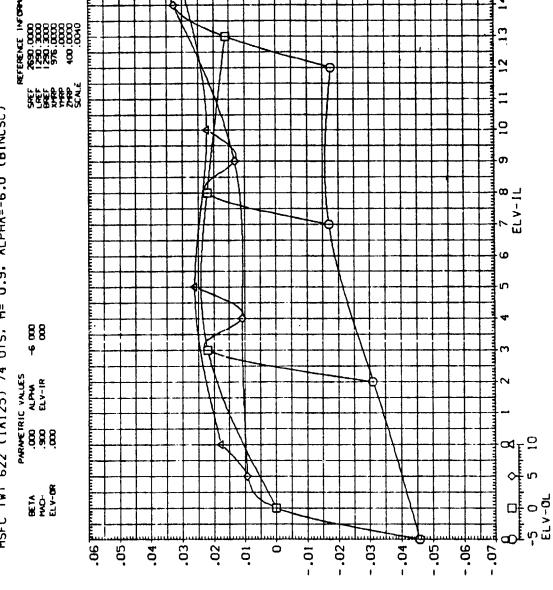
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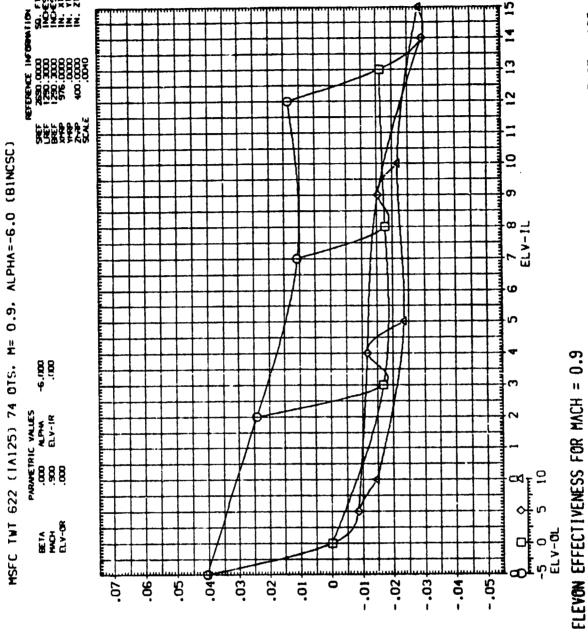


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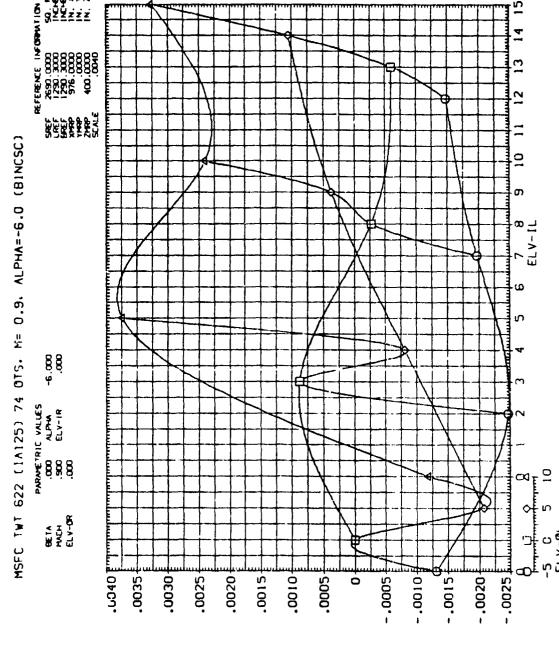
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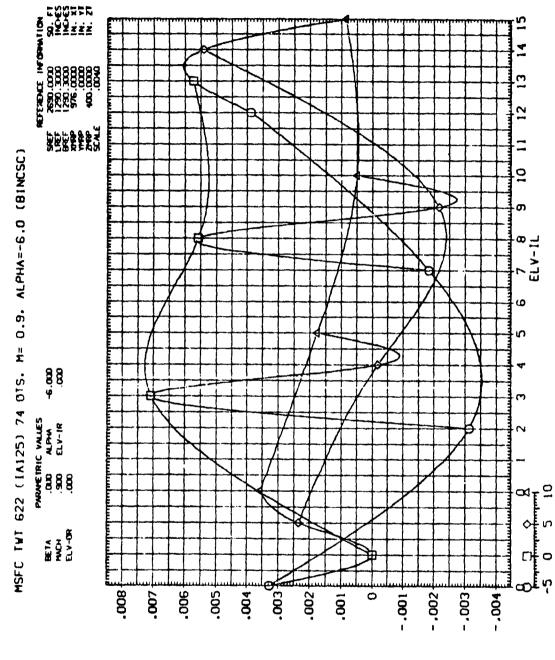




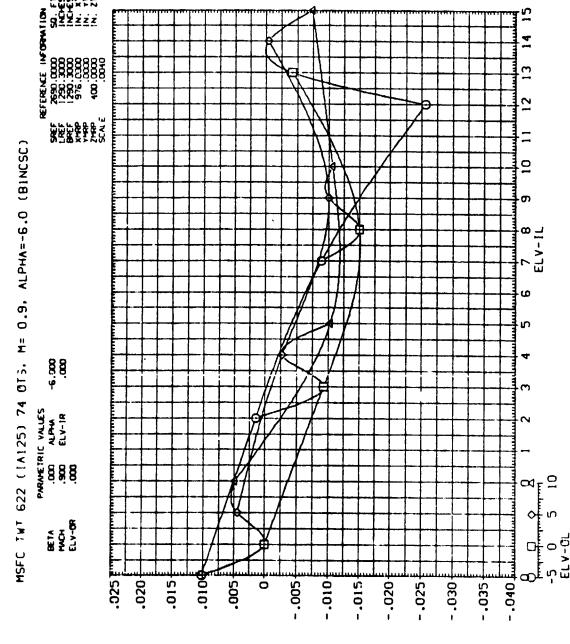
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INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF



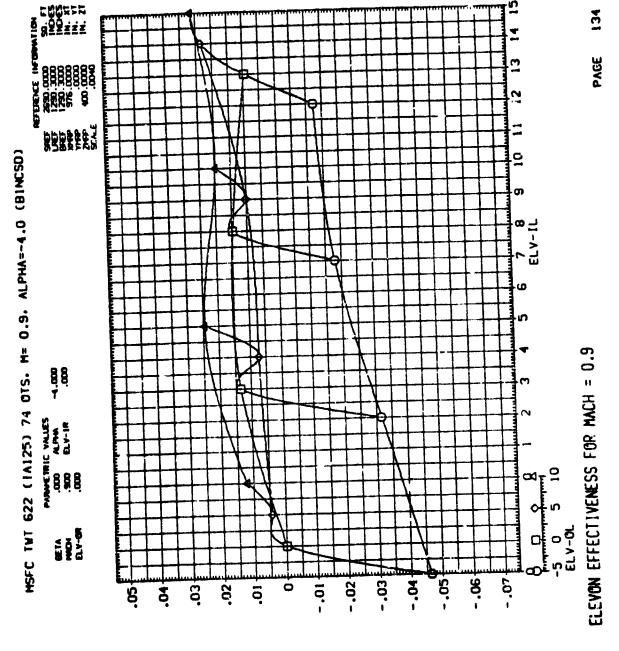
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7575767 187 7590.0000 1290.0000 1750.0000 950.0000 400.0000 SCALE CONTRACTOR MSFC TWT 622 (IA125) 74 0TS. M= 0.9, ALPHA=-6. (BINCSC) 0 ဖ ELEVON EFFECTIVENESS FOR MACH = 0.9 9.89 9.89 9.89 PARAMETRIC VALUES .000 ALPH .900 ELV-IR .000 BETA RACH ELV-OR -.005 -.010 -.015 .015 -.020 -.025 .035 010. 080 .025 .020 .005

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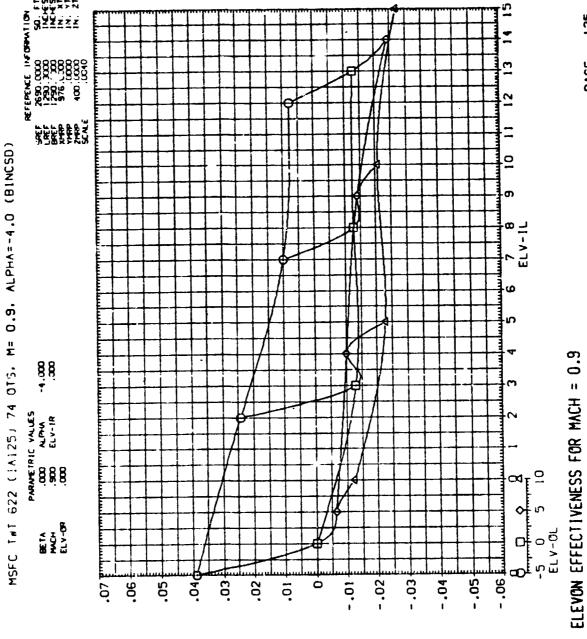
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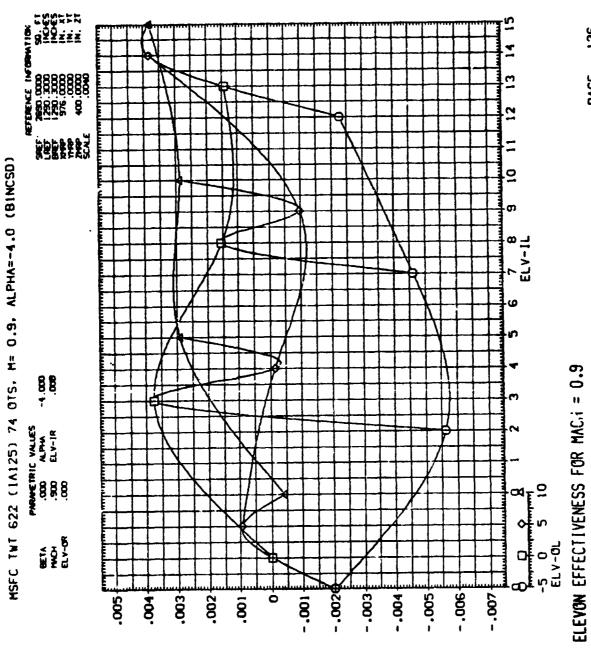
INCREMENTAL NORMAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCN





INCREMENTAL PITCHING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION. DCLM



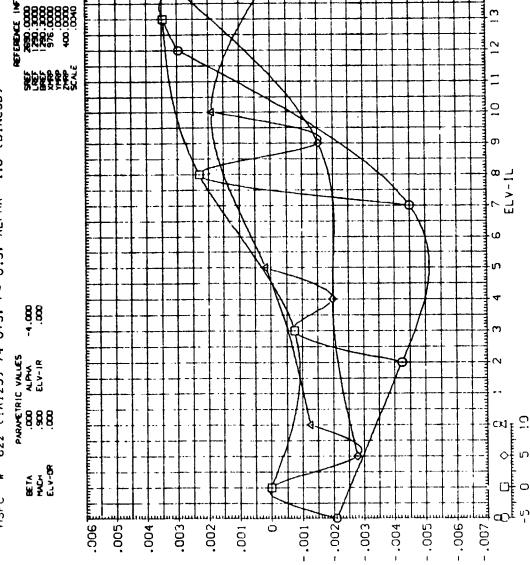


INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEYON DEFLECTION. DCA

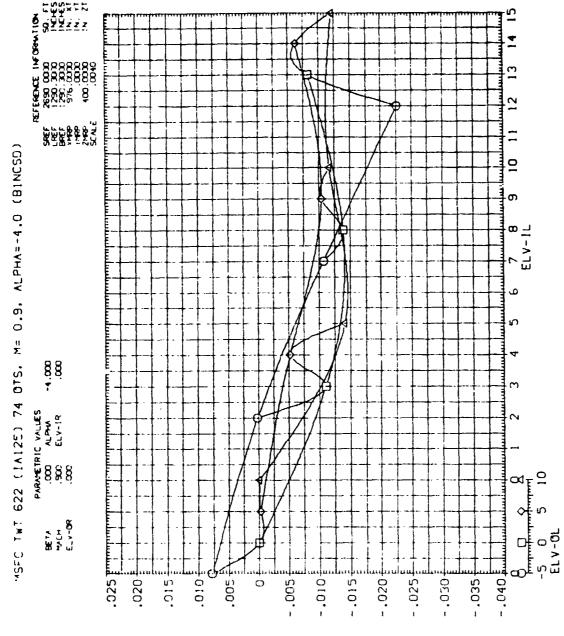
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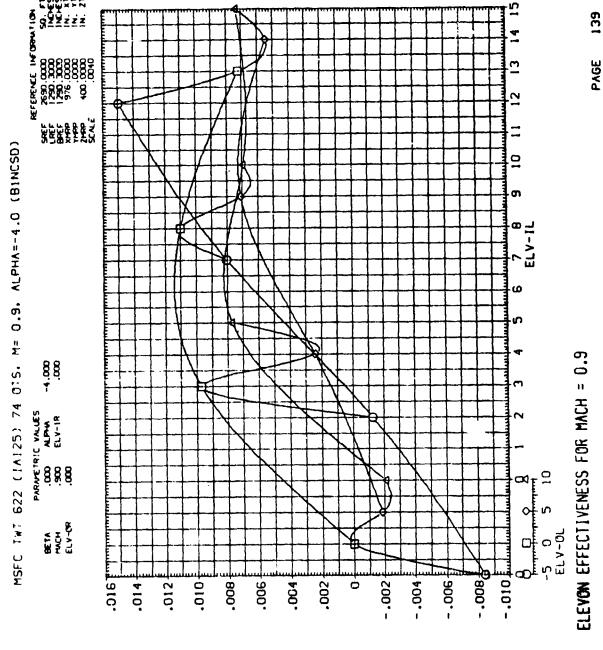


INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF



INCREMENTAL SIDE FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCY

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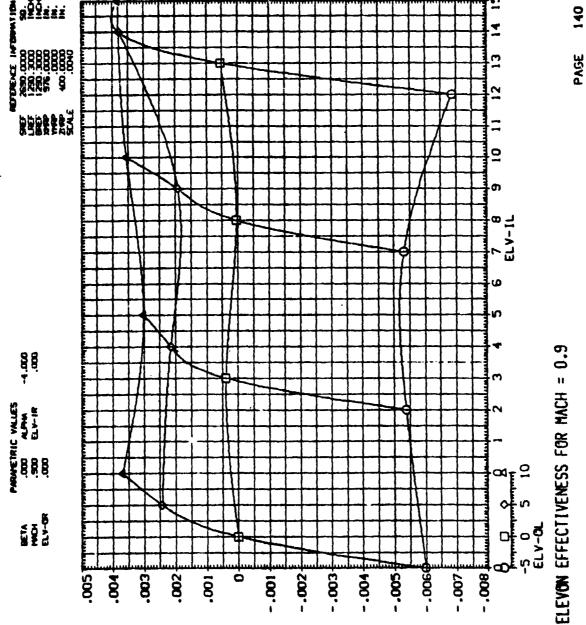


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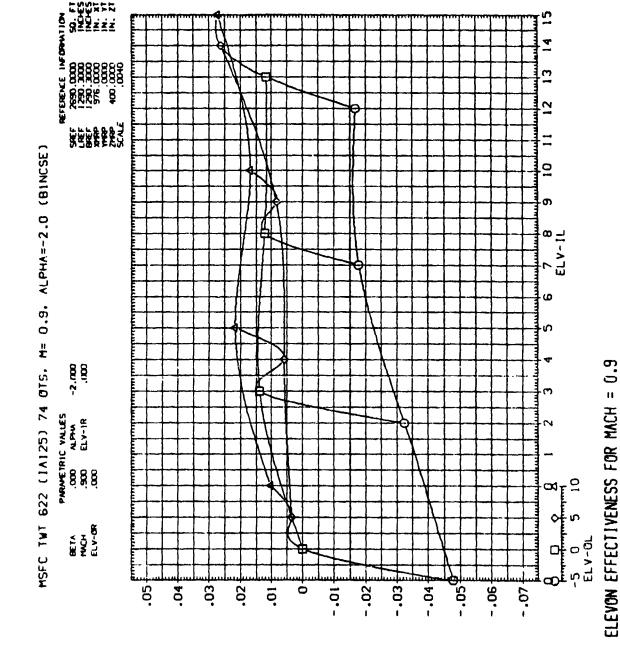
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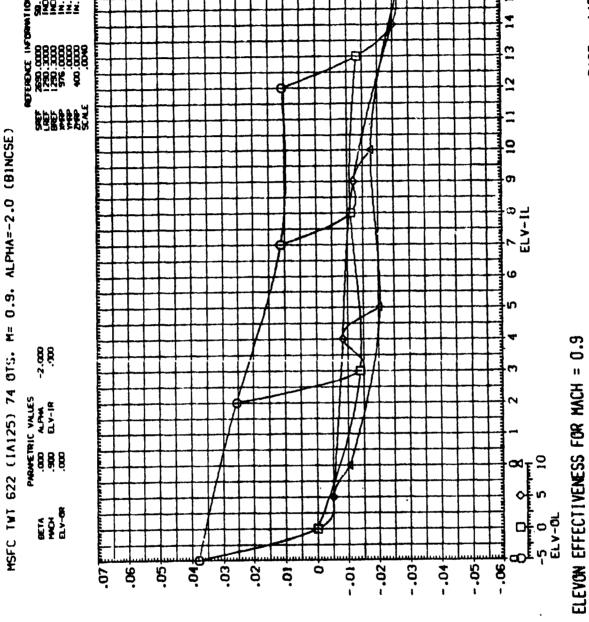
これの一般は、神経の神をいいからからはないのでは、これでは、これの情報ではいる。 ちゅうかい まんしゅうかい かんしょ あんかいかい しゅうかん はいないがく



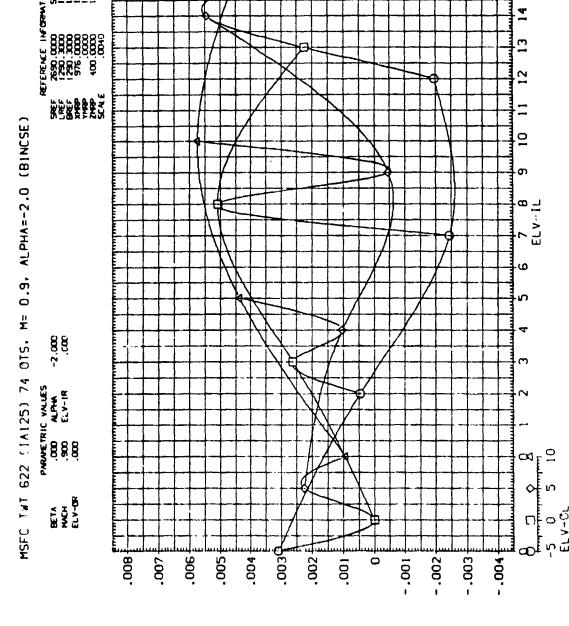
INCREMENTAL ROLLING MOMENT COEFFICIENT DUE TO ELEVON DELLECTION.



INCREMENTAL MORMAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCN



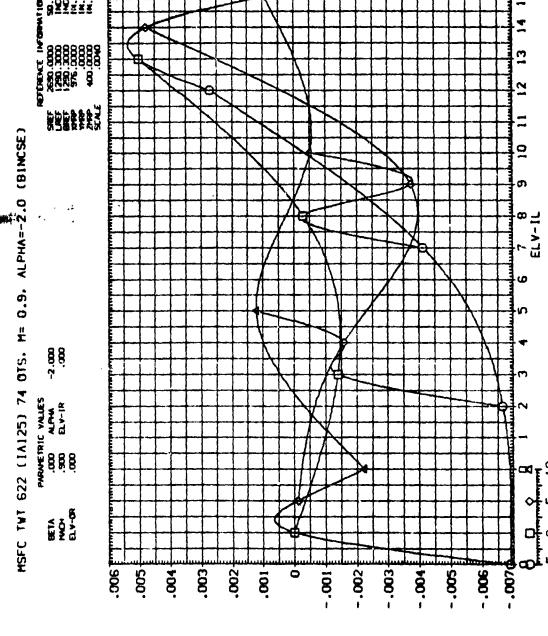
HOMENT COEFFICIENT DUE TO ELEVON DEFLECTION. DCLM



INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCA

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ELEVON EFFECTIVENESS FOR MACH = 0.9

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INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF











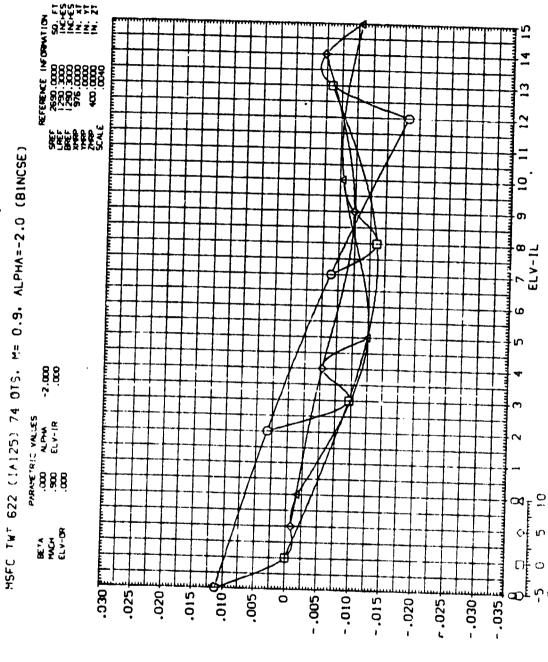




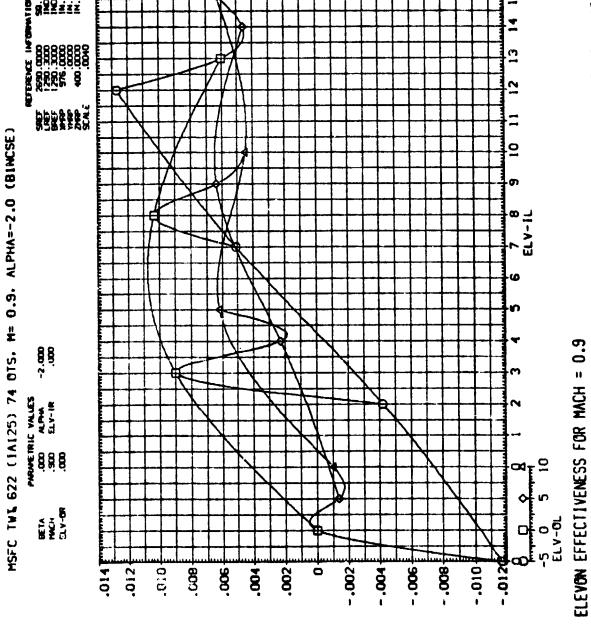






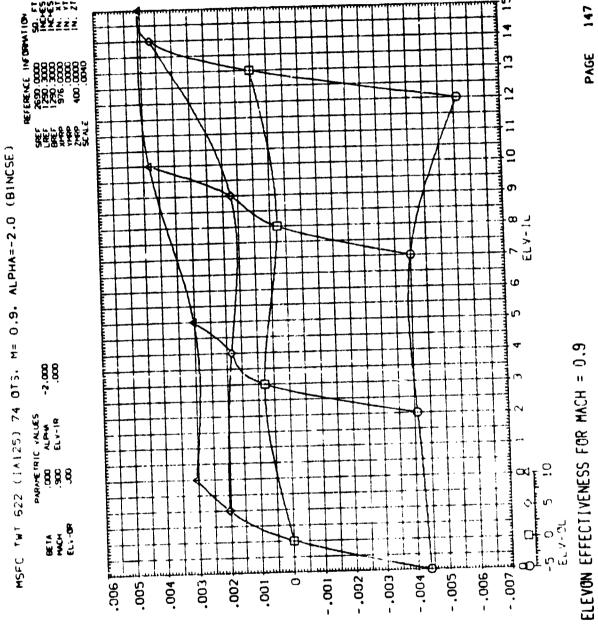


INCREMENTAL SIDE FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCY

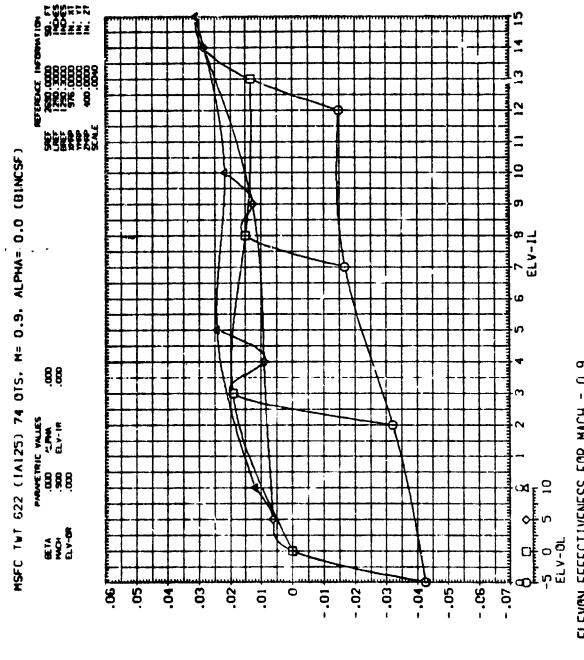


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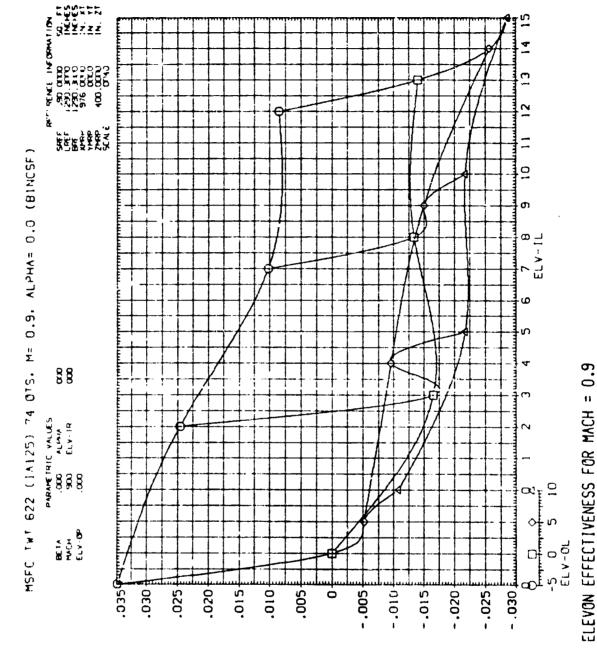
INCREMENTAL YANTHG MOHENT COEFFICIENT DUE TO ELEVAN DEFLECTION, DOYN



INCREMENTAL ROLLING MOMENT COEFFICIENT DUE TO ELEVON DELLECTION, DCBL



INCREMENTAL NORMAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCN



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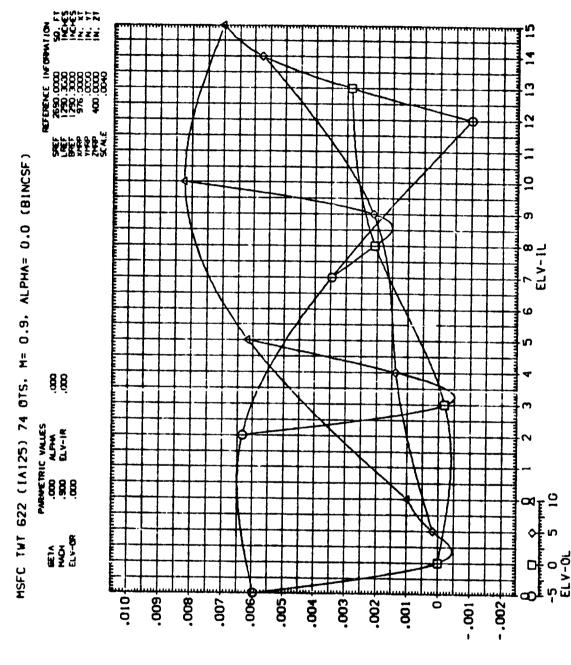
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INCREMENTAL PITCHIL MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION. DCLM

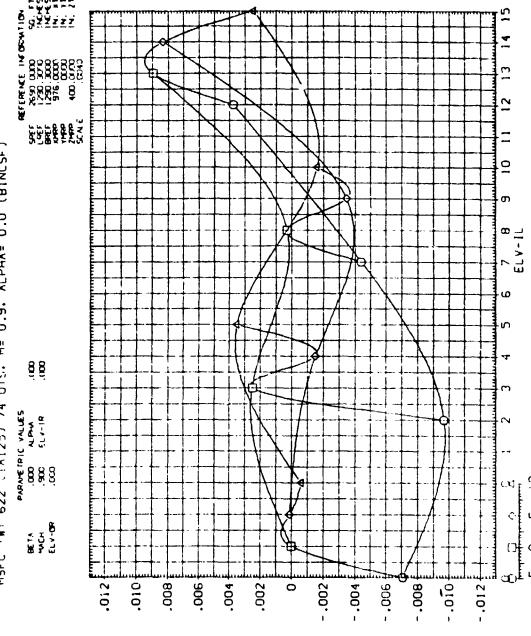
Control of the State of Albania

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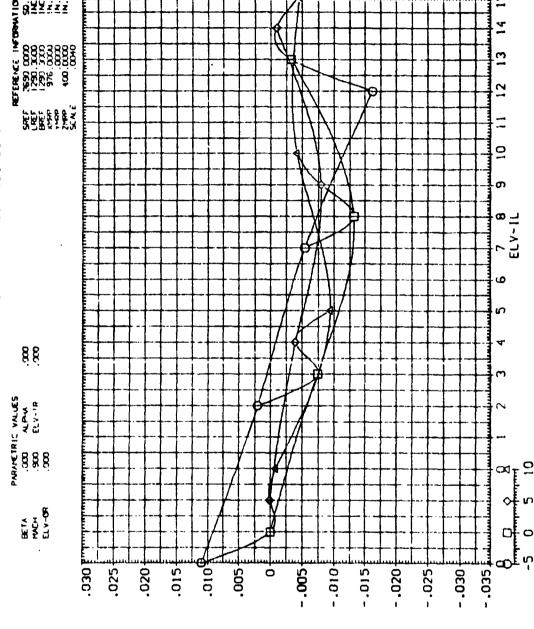
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ELEVUN EFFECTIVENESS FOR MACH

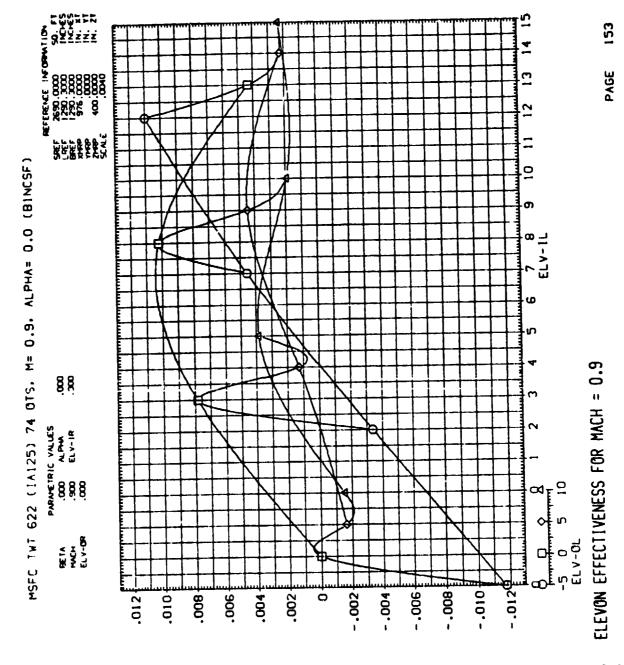


INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF

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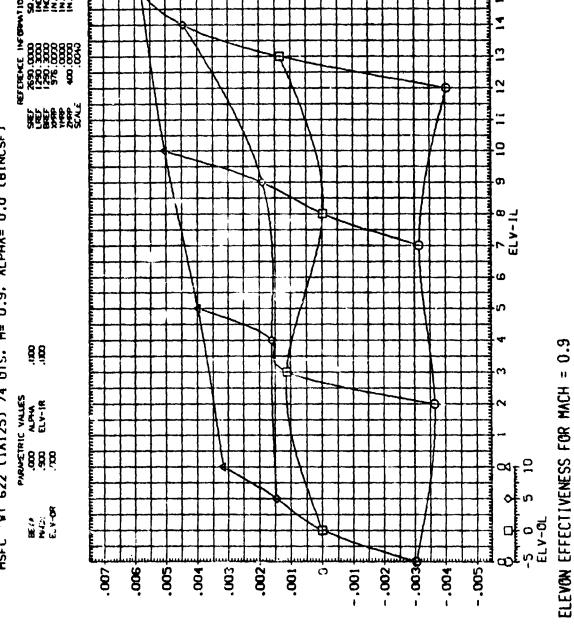
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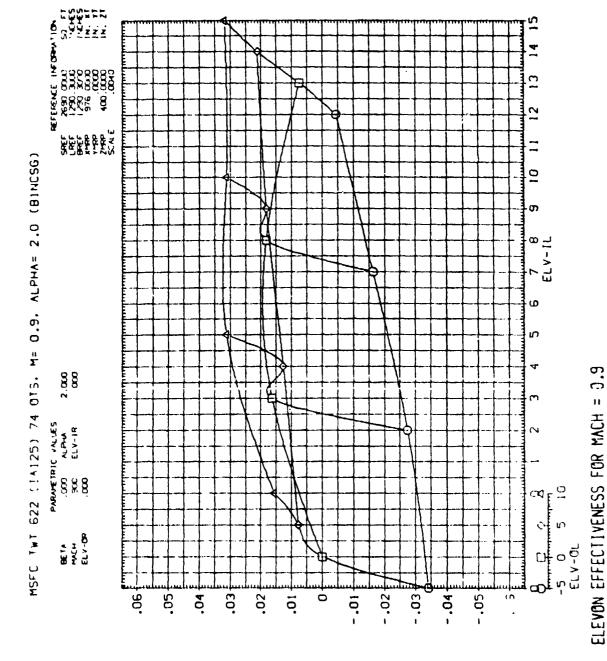
INCREMENTAL YAWING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION. DCYN

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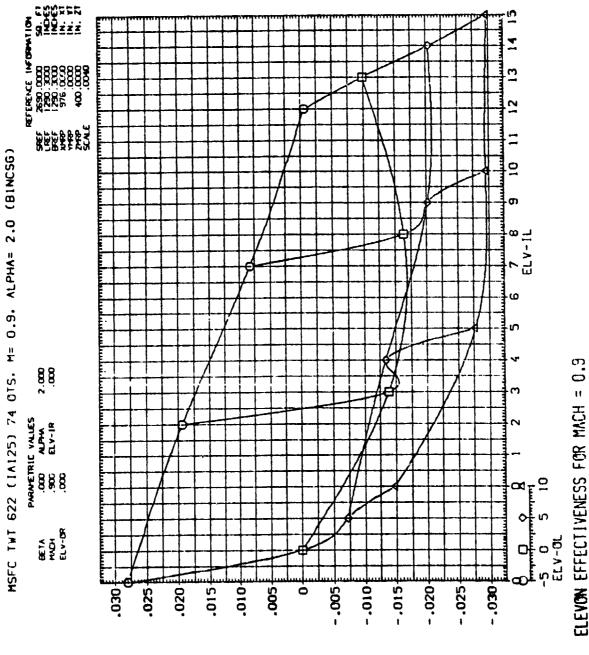




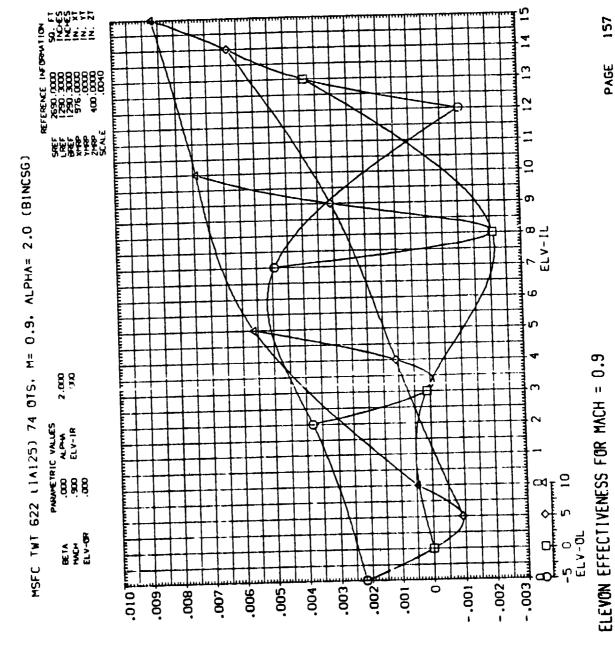
INCREMENTAL ROLLING MOMENT COEFFICIENT DUE TO ELEYON DELLECTION. DCBL



INCREMENTAL NORMAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DON



INCREMENTAL PITCHING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION. DCLM

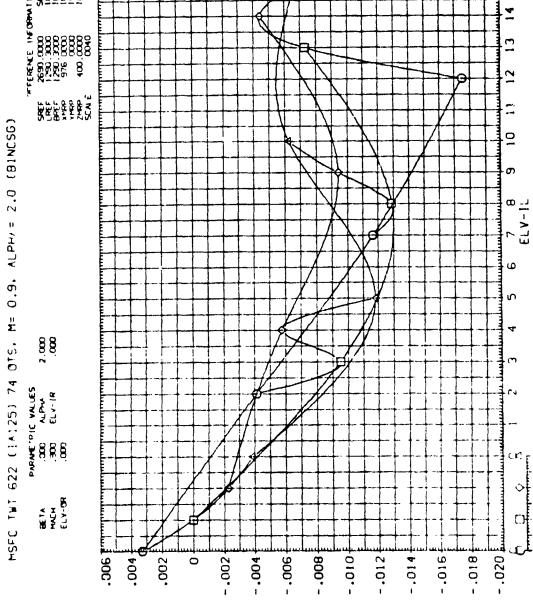


INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION, DCA

INCREMENTAL FOREBOOY AXIAL FORCE COEFFICIENT, DCAF

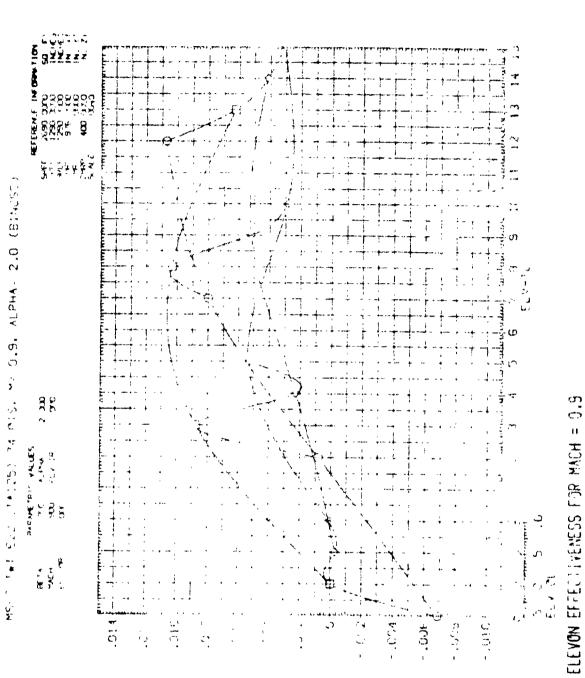
のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「これ」、「これ」、「日本のでは、」」、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、」」、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、」」、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、「日本のでは、」」、「日本のでは、「

ELEVON EFFECTIVENESS FOR MACH = 0.9

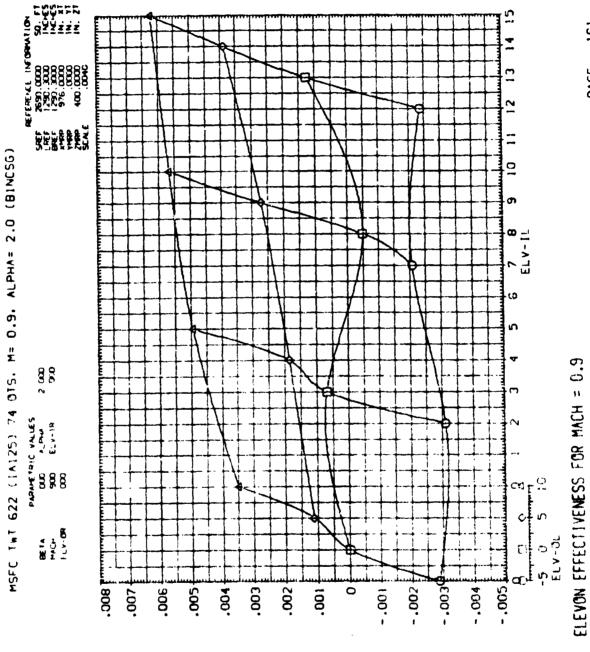


INCREMENTAL SIDE FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCY



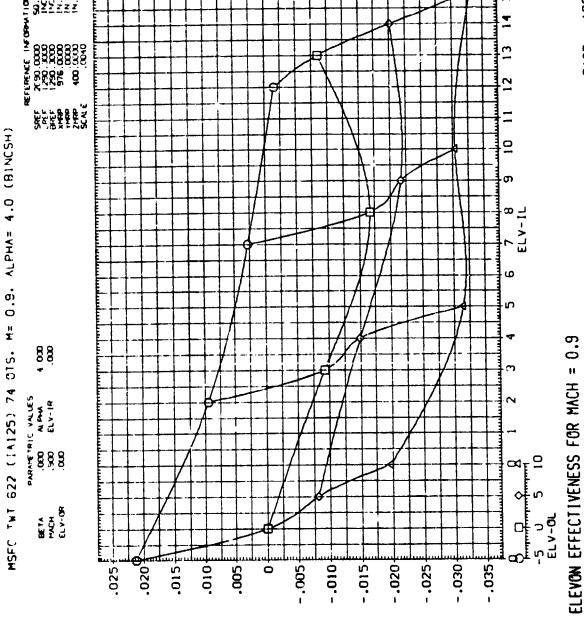


INCREMENTAL YANTHG MOMENT COEFFICIENT DUE TO ELONOM DE LEUTION. DENN



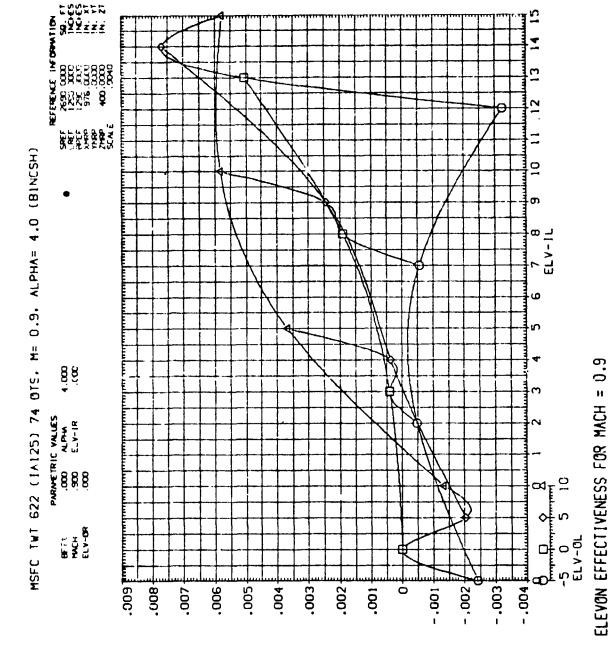
INCREMENTAL ROLLING MOMENT COEFFICIENT DUE TO ELEVON DELLECTION. DCBL

INCREMENTAL NORMAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DON

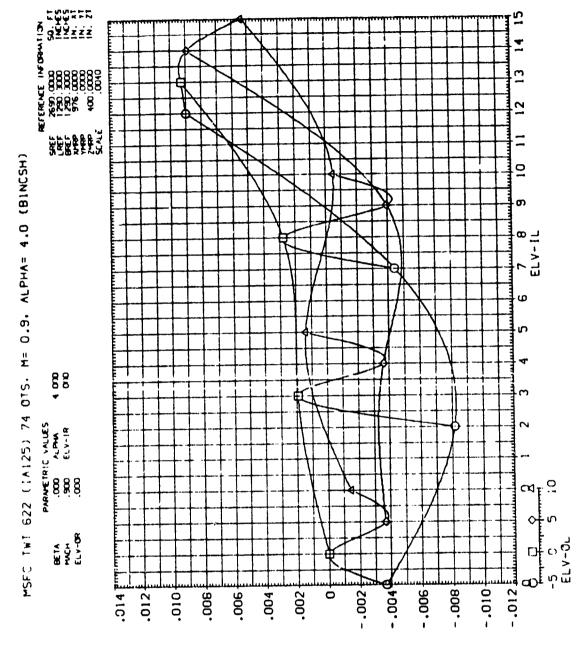


INCREMENTAL PITCHING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION. DCLM

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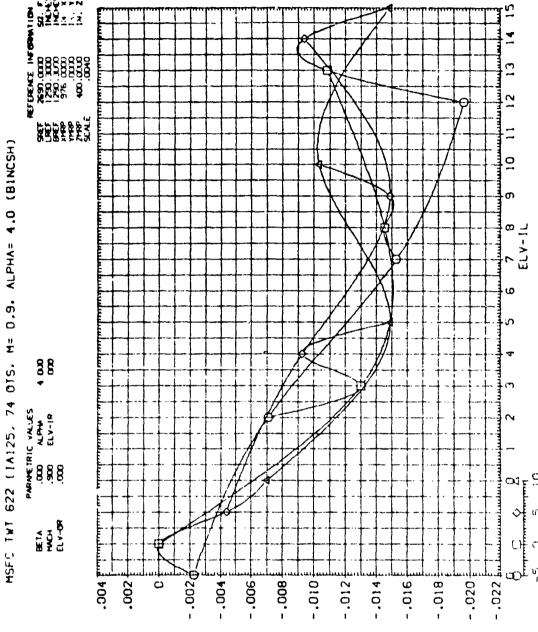


INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION, DCA

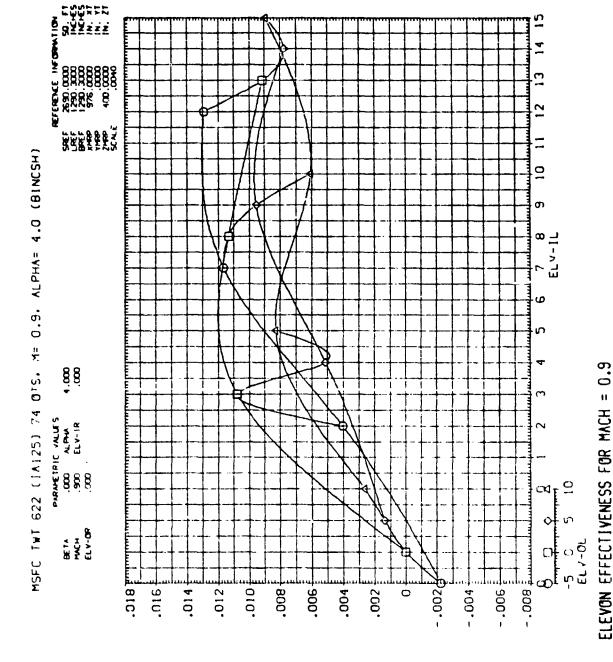


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INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF

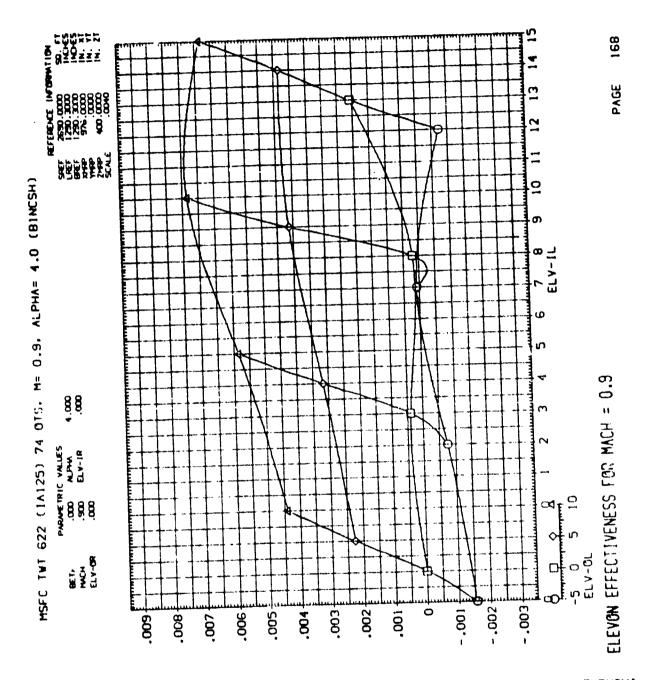


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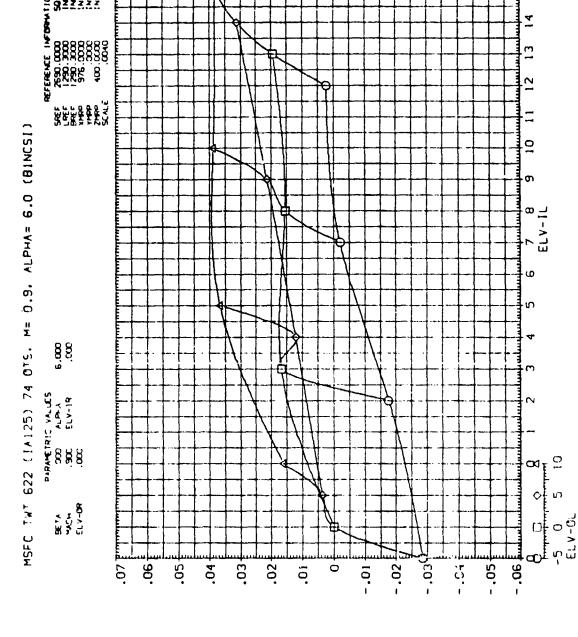


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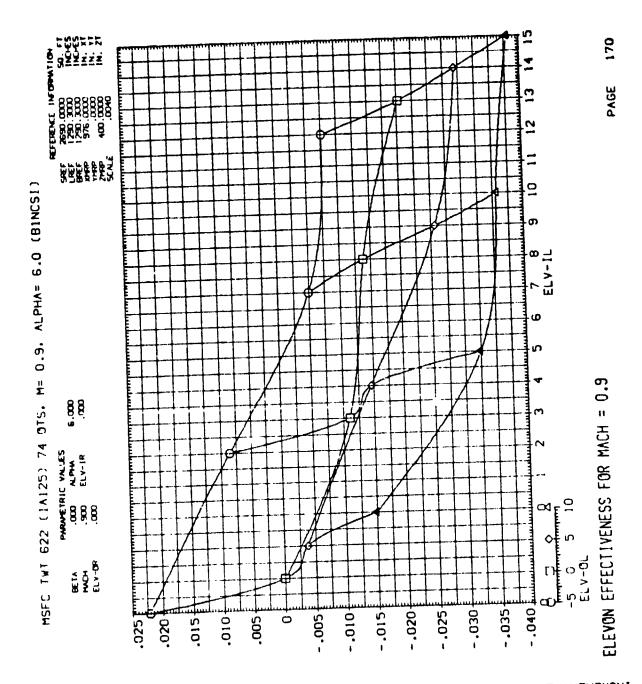
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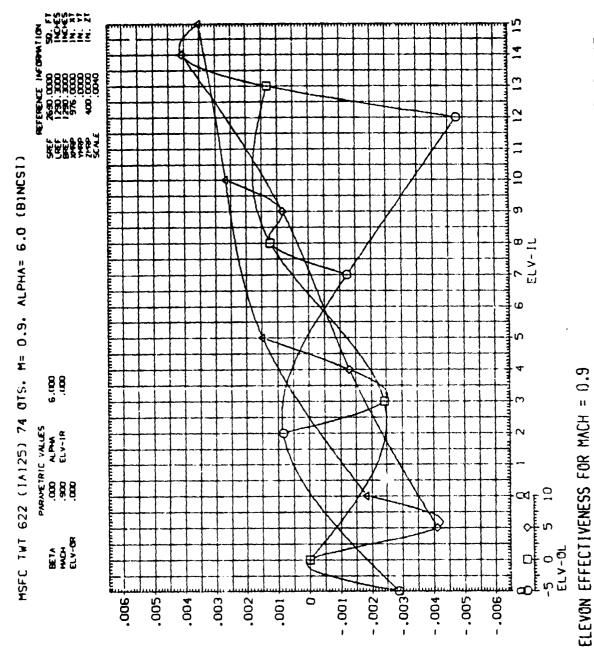


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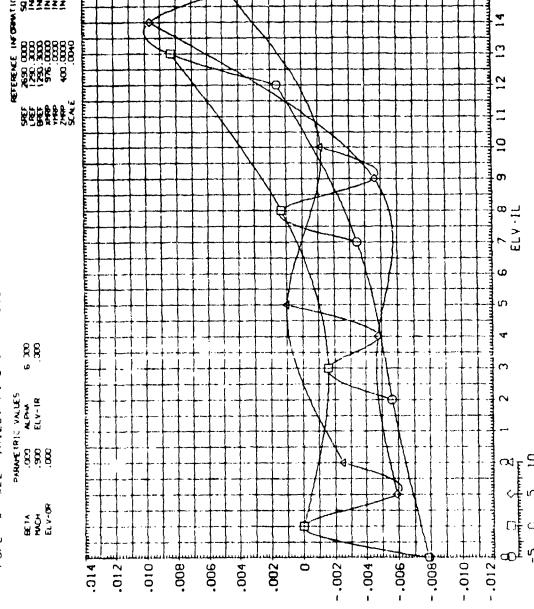
INCREMENTAL PITCHING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION, DCLM

PAGE 171

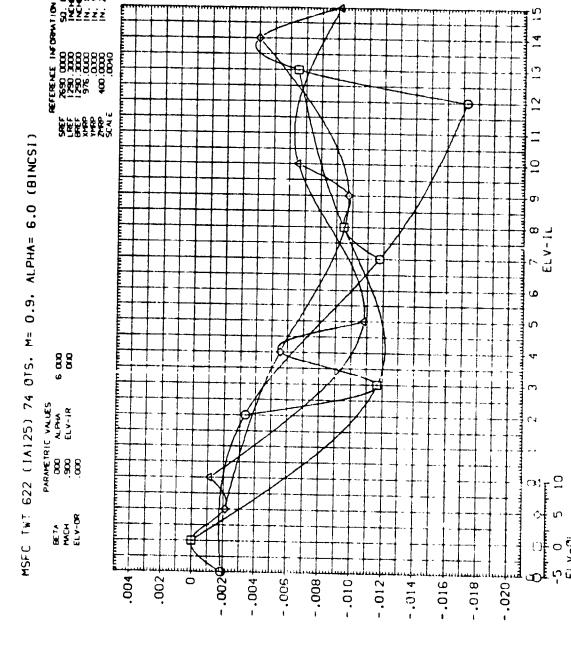


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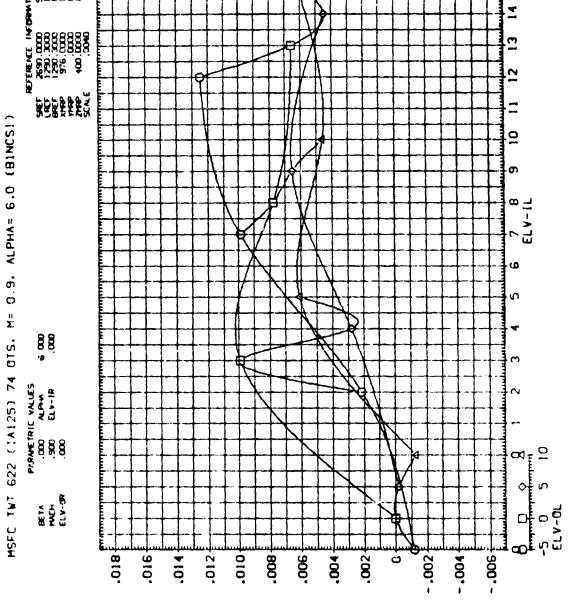
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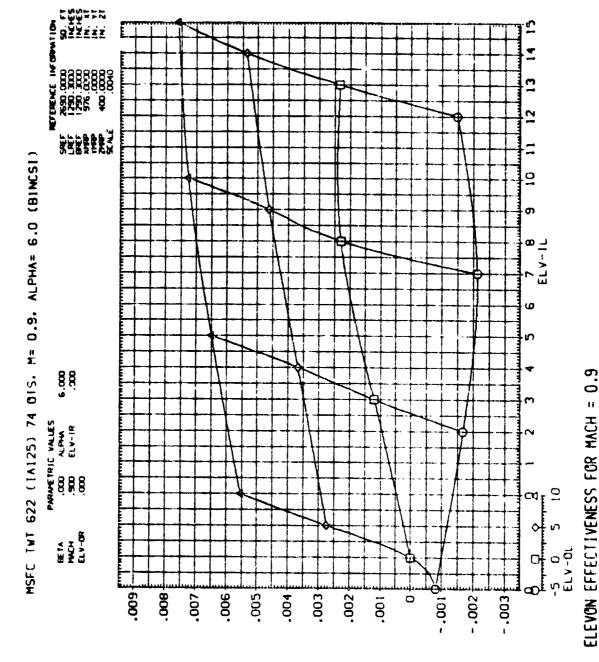
ELEVON EFFECTIVENESS FOR MACH = 0.9 ± 900° --018€ ф С -.004 -010 3900: .002 -.002 .014 .012 800. •004

INCREMENTAL YAWING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION. DCYN



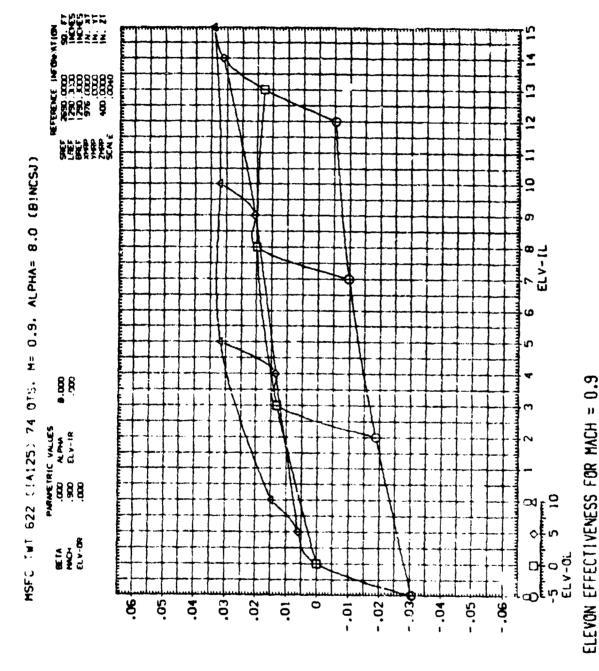
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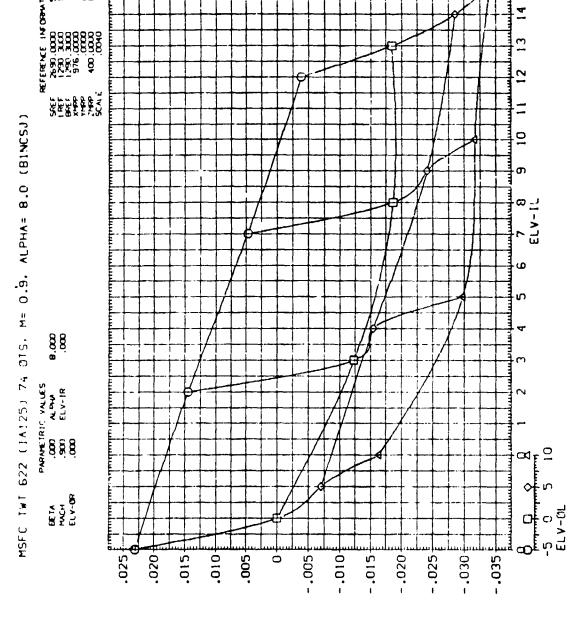


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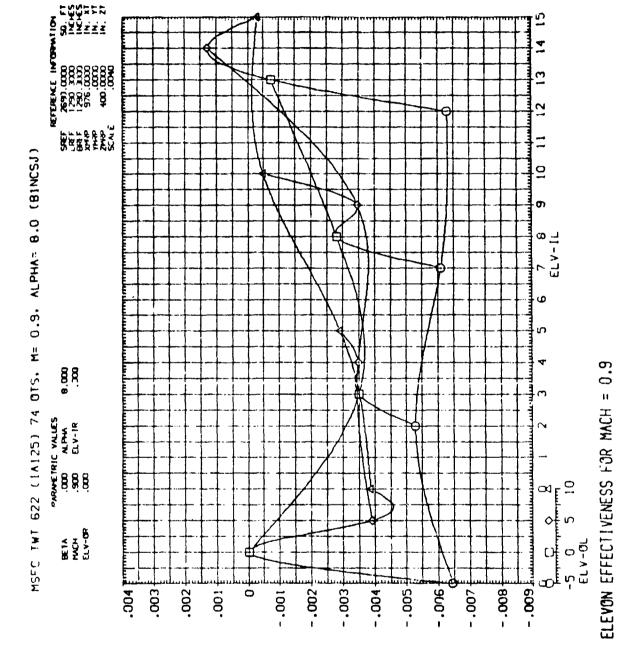
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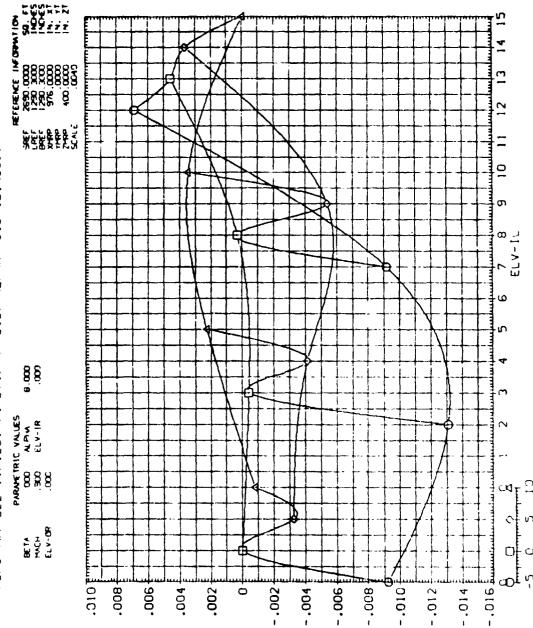


INCREMENTAL PITCHING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION. OCLM



INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCA

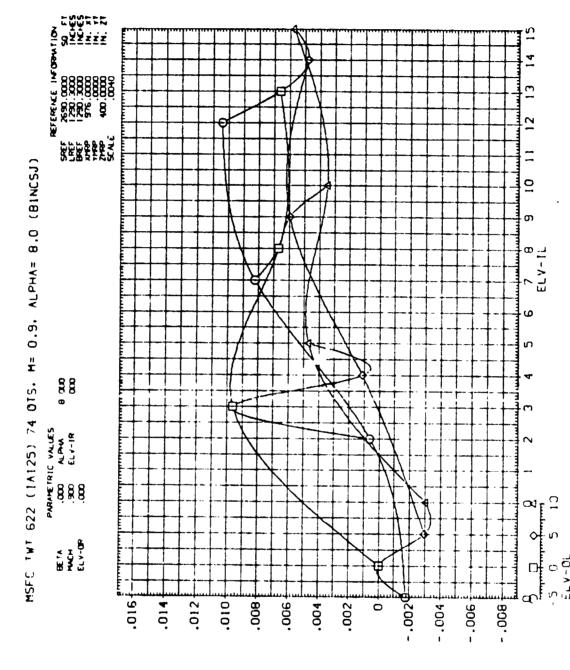




INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF

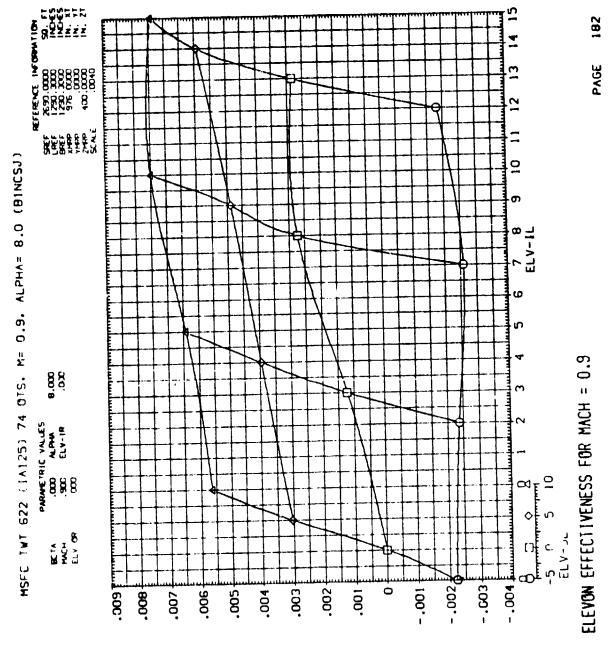
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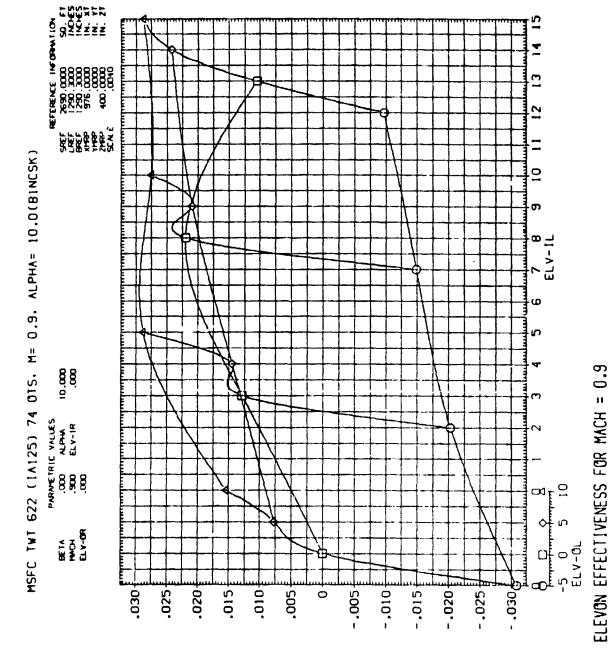


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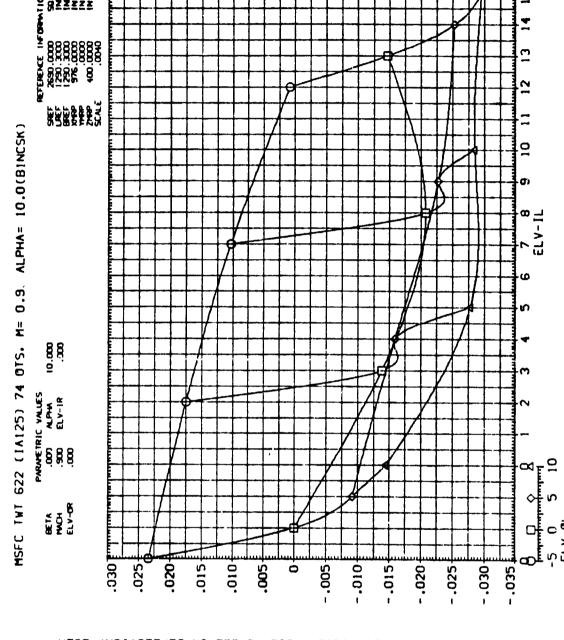
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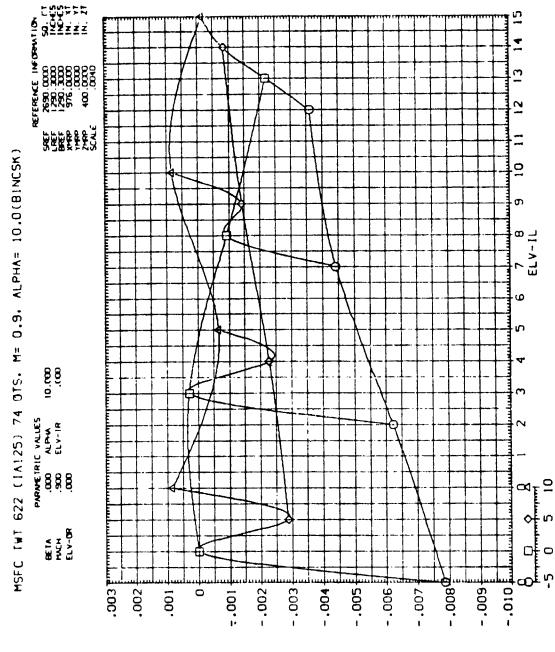
INCREMENTAL ROLLING MOMENT COEFFICIENT DUE TO ELEVON DELLECTION. DCBL



INCREMENTAL NORMAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION, DCN



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INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCA

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INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF

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ELEVON EFFECTIVENESS FOR MACH = 0.9

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10.900 .0000 PARMETRIC VALLES .000 ALPM .900 ELV-IR .000 BETA MACH ELV-OR

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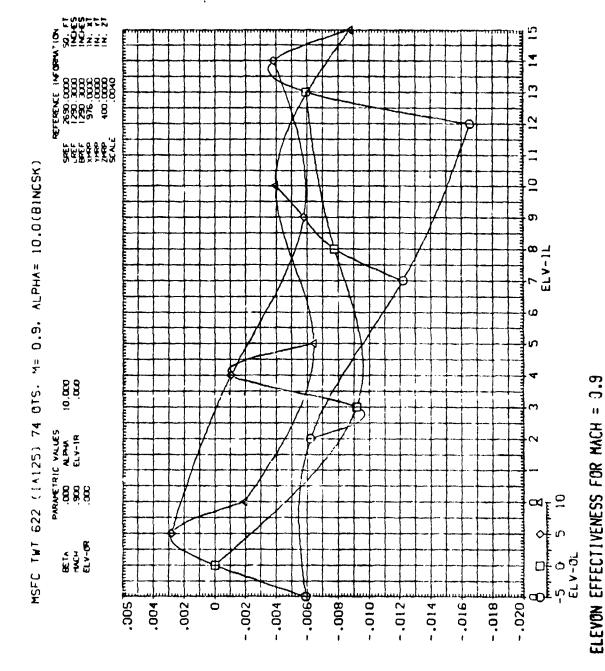
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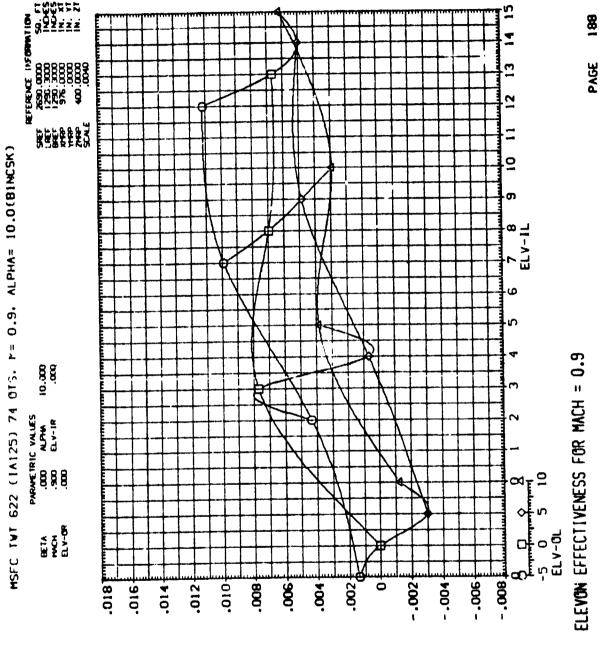




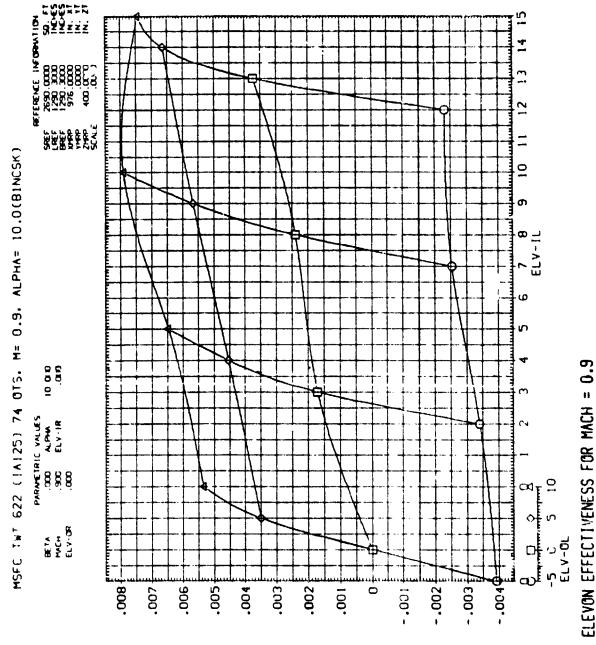




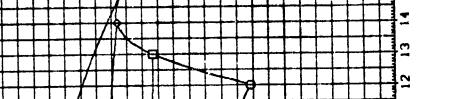
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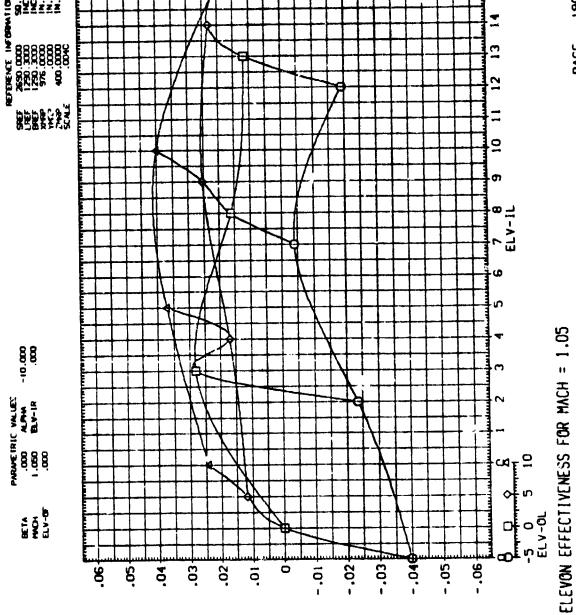


INCREMENTAL YAWING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION. DCYN



INCREMENTAL ROLLING MOMENT COEFFICIENT DUE TO ELEVON DELLECTION. DCBL





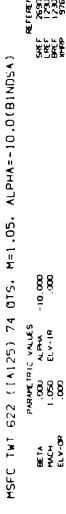
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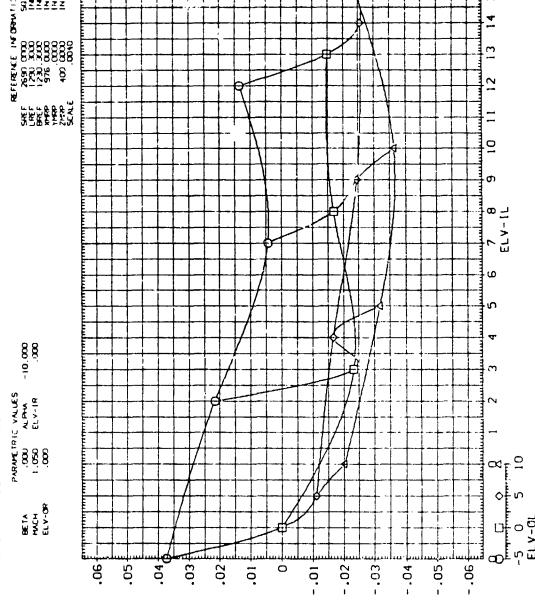
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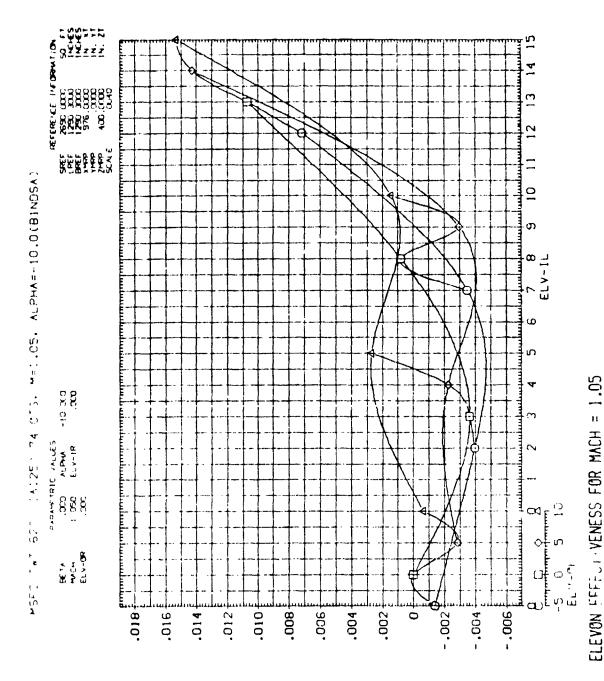
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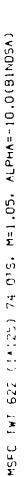


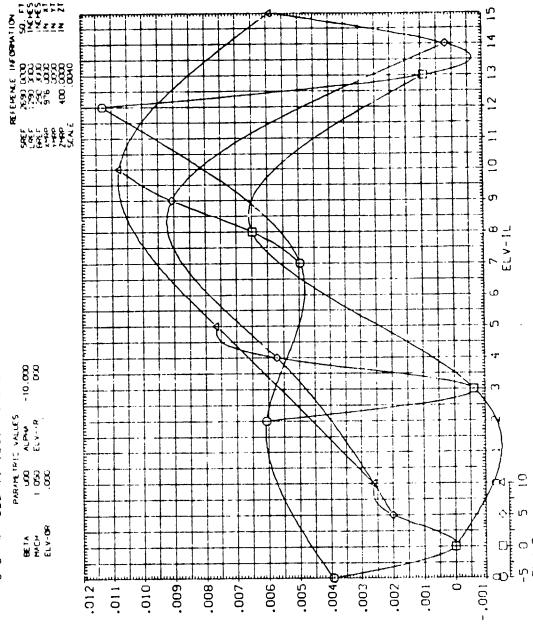


INCREMENTAL PITCHING MOMENT CMEFFICIENT DUE TO ELEVON DEFLECTION, DCLM



INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCA

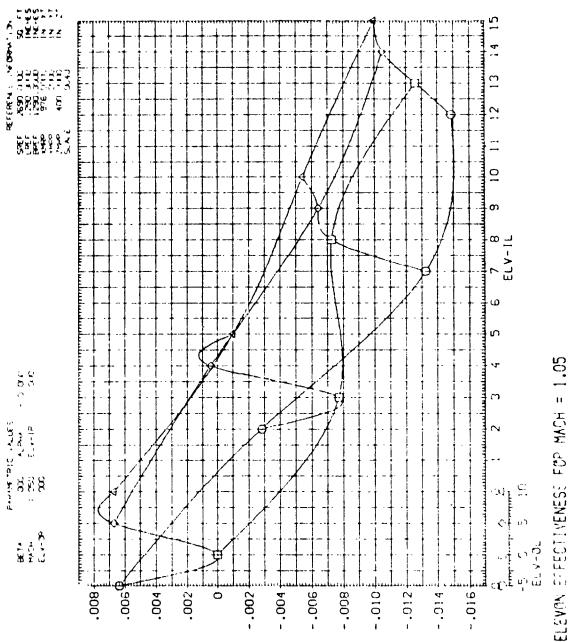




INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF

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INCREMENTAL SIDE FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCY

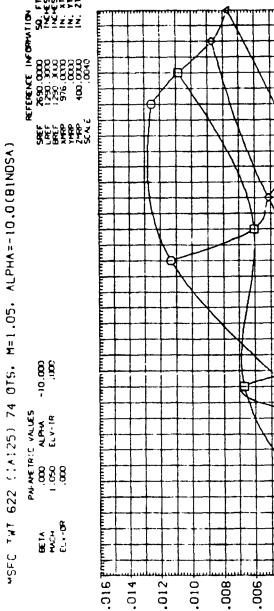
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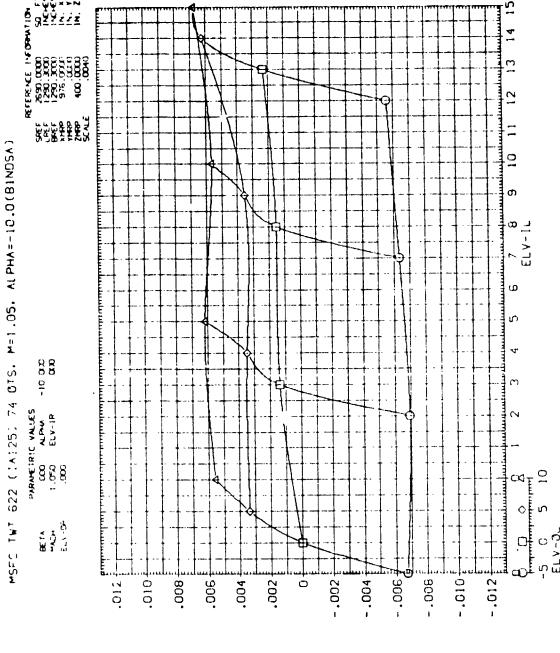
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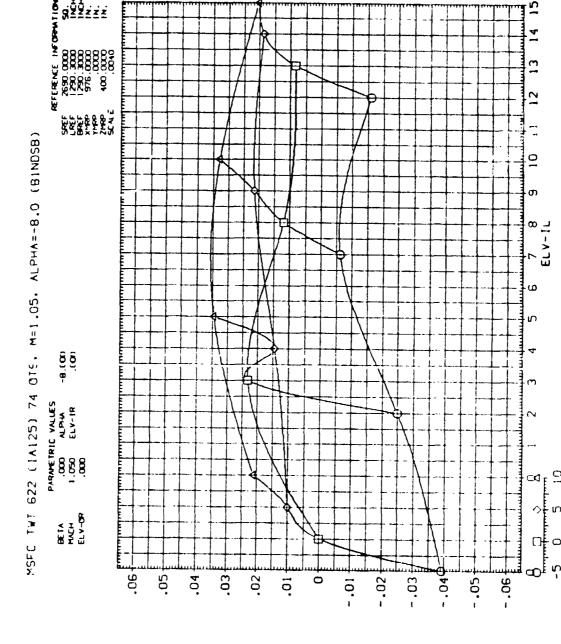


ELEVON EFFECTIVENESS FOR MACH = 1.05 - .010 Julianianiani - .006d € 700 -.002 -.004 ₹800.-.004 INCREMENTAL YAWING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION, DCYN



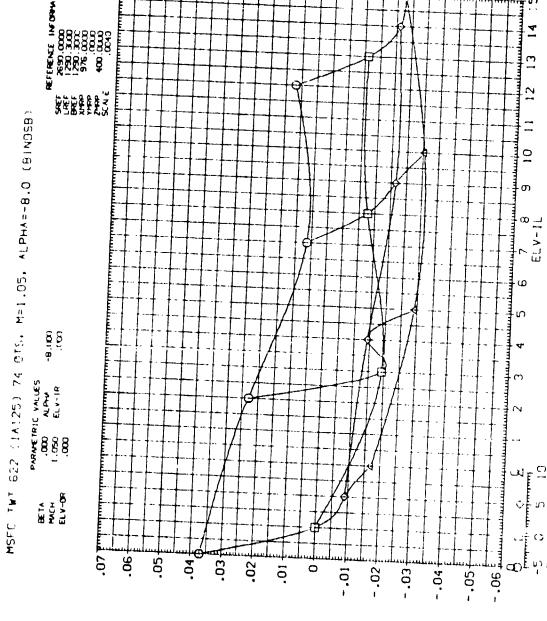


INCREMENTAL ROLLING MOMENT COEFFICIENT OUE TO ELEVON DELLECTION. DCBL

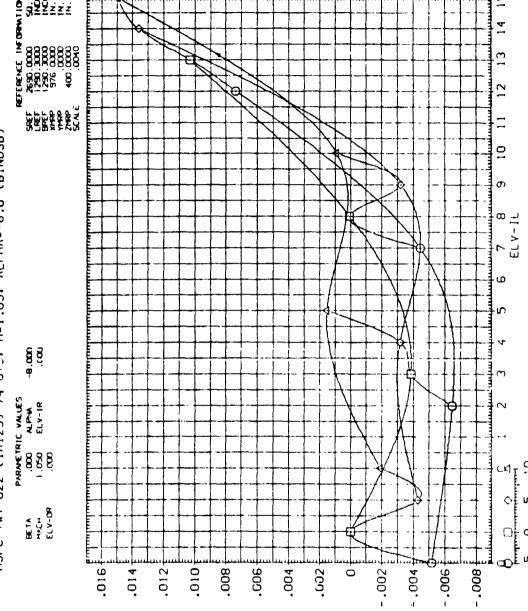


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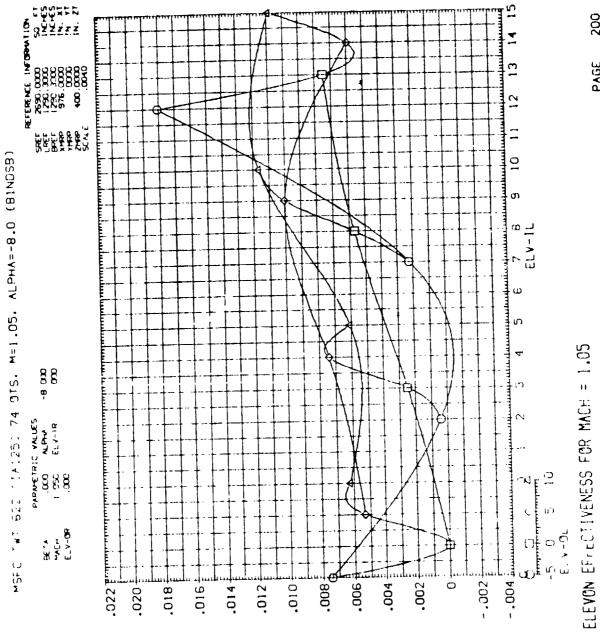
Application of the state of



ELEVON EFFECTIVENESS FOR MACH = 1.05 INCREMENTAL PITCHING MOMENT COEFFICIENT OUE TO ELEVON DEFLECTION, OCLM



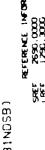
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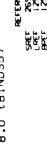


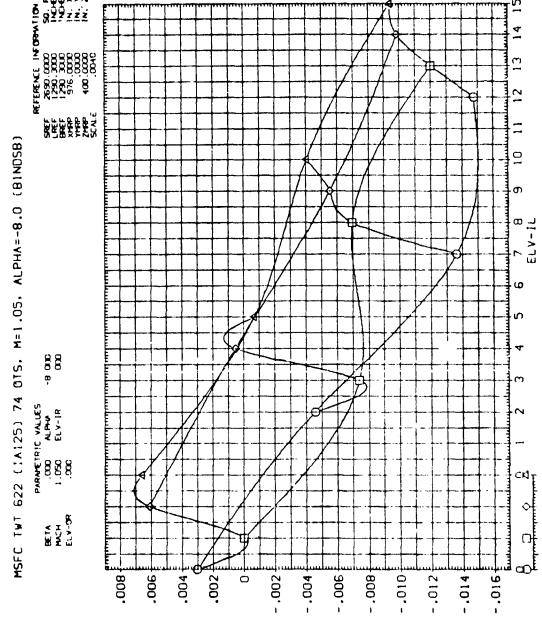
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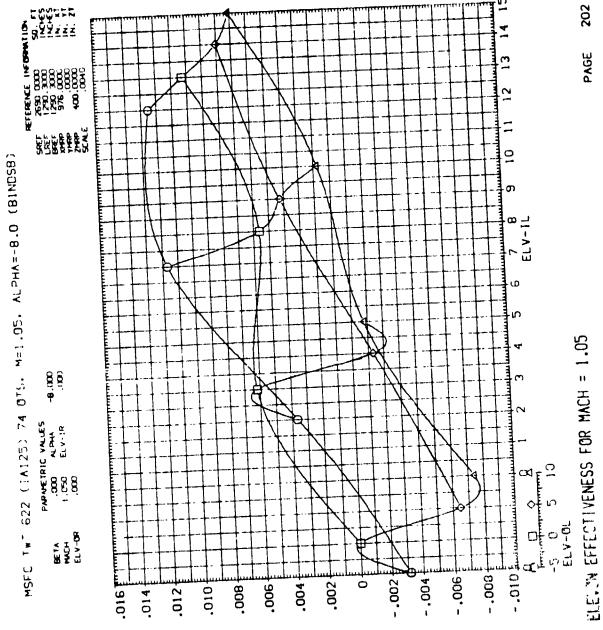
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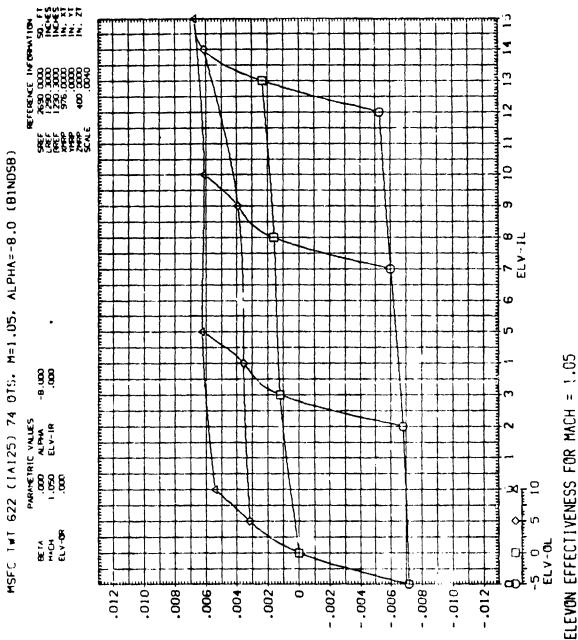


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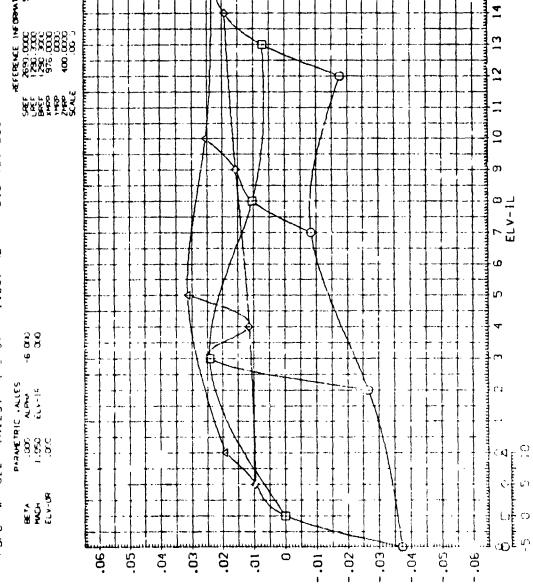
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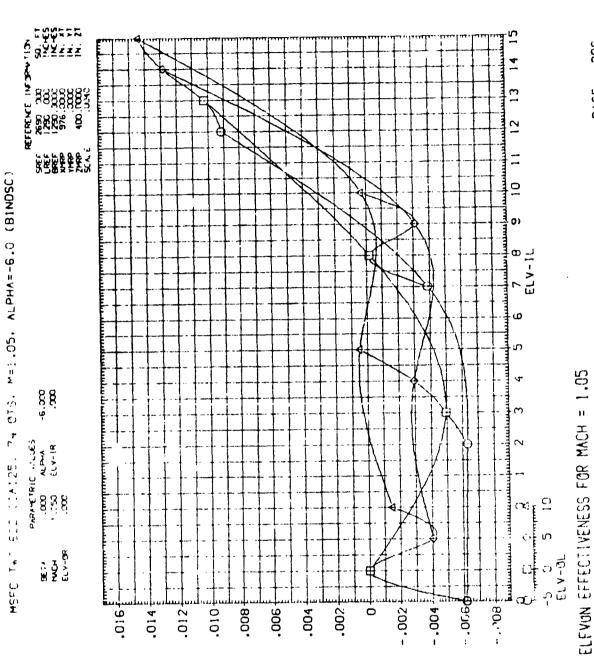
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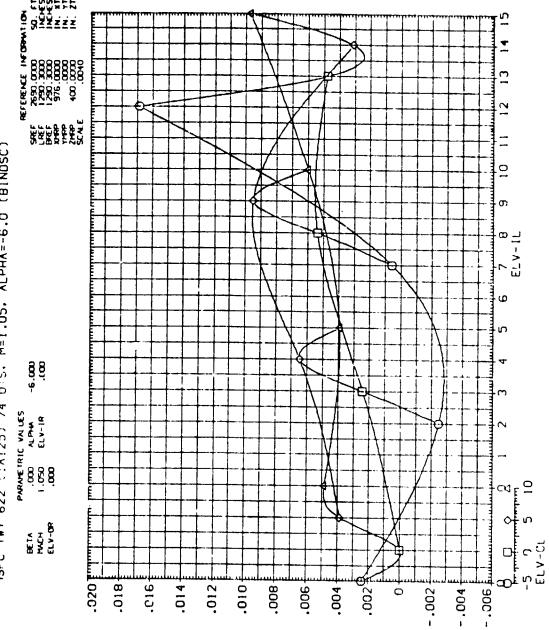
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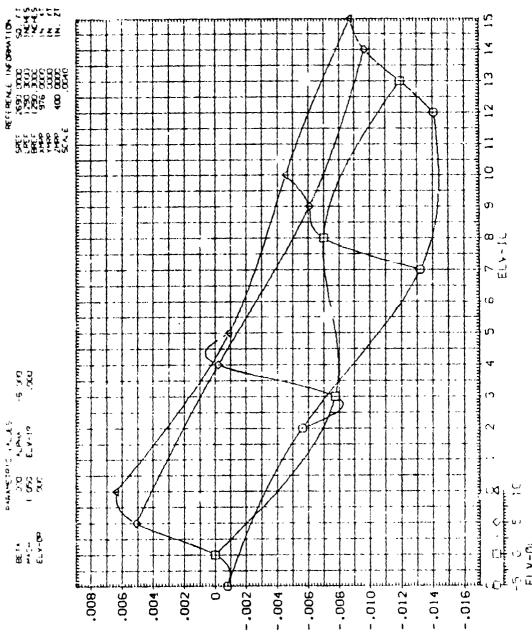
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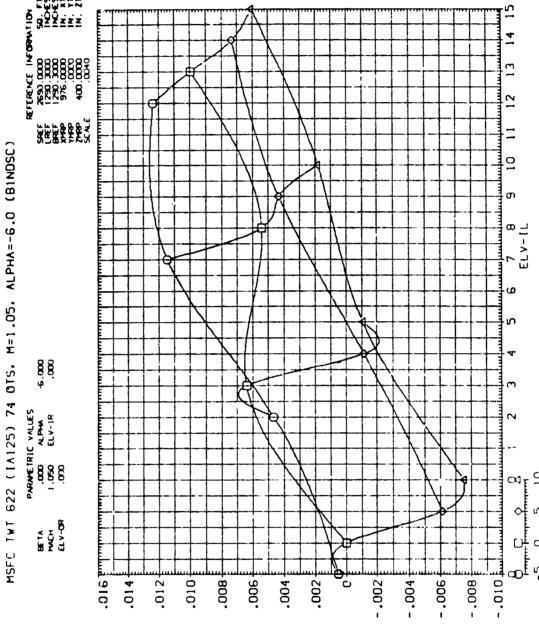
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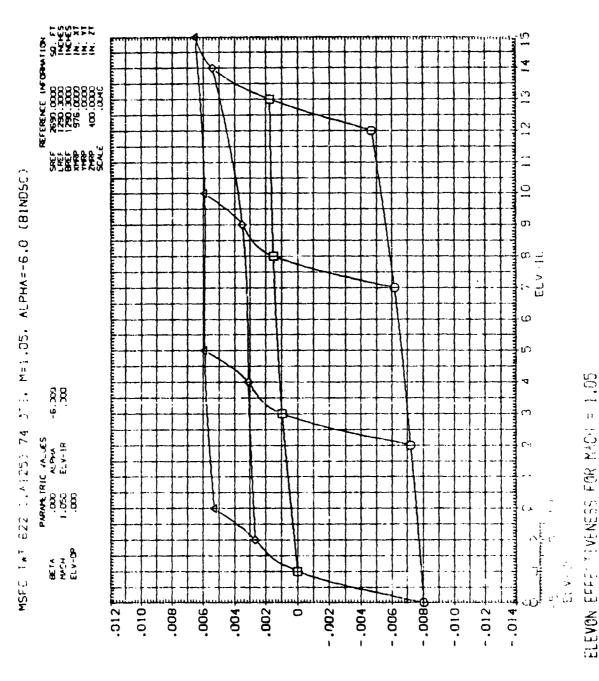
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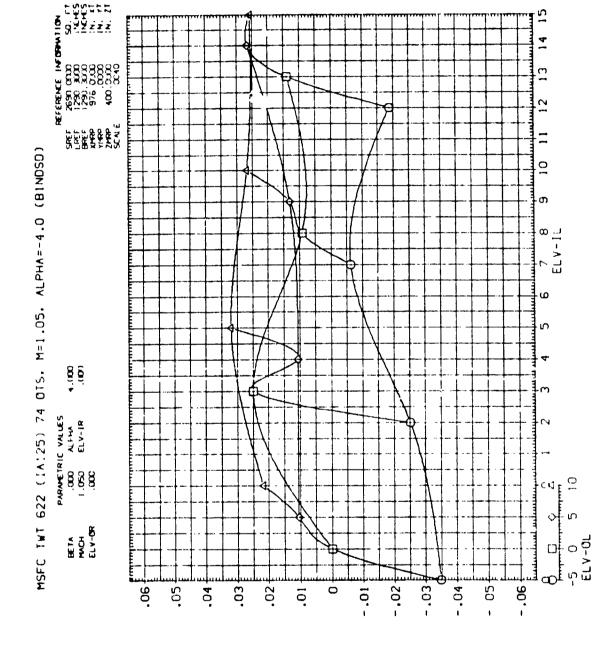
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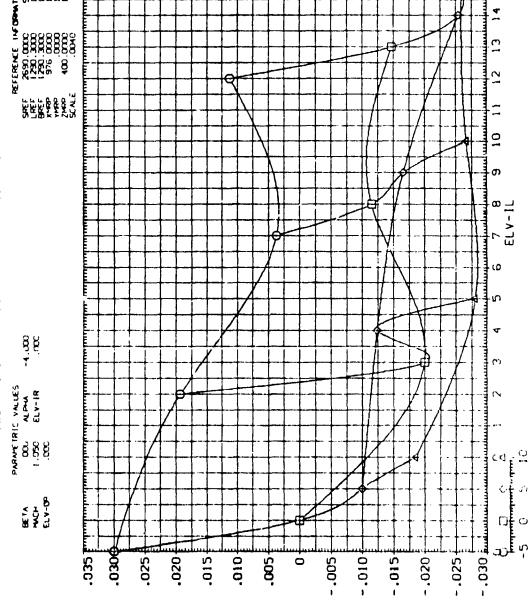
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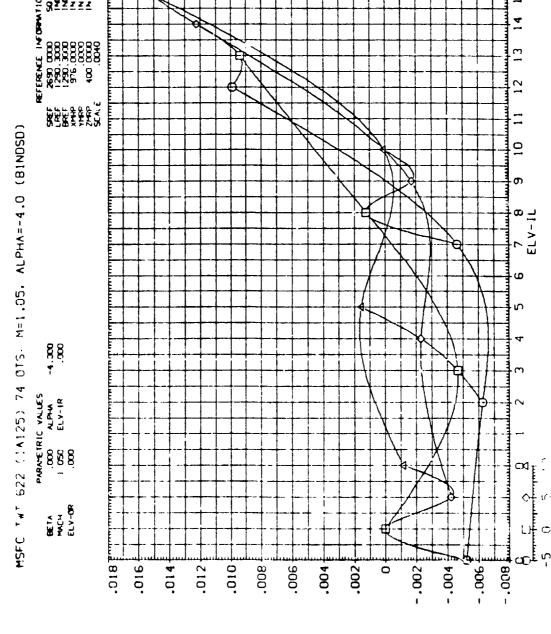
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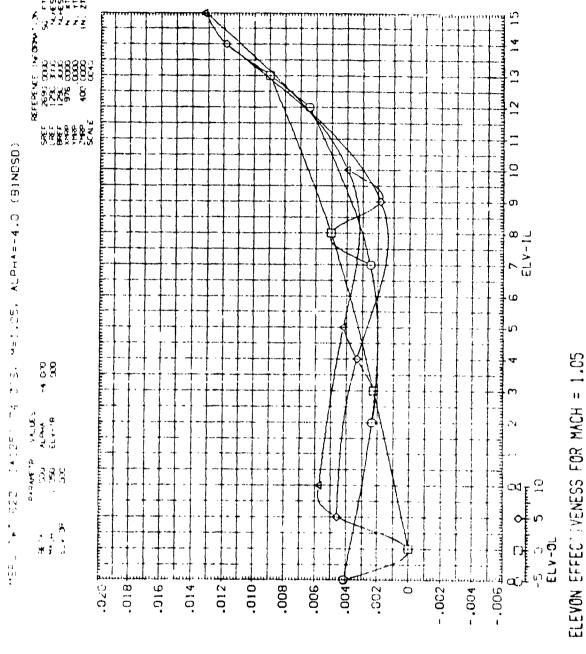
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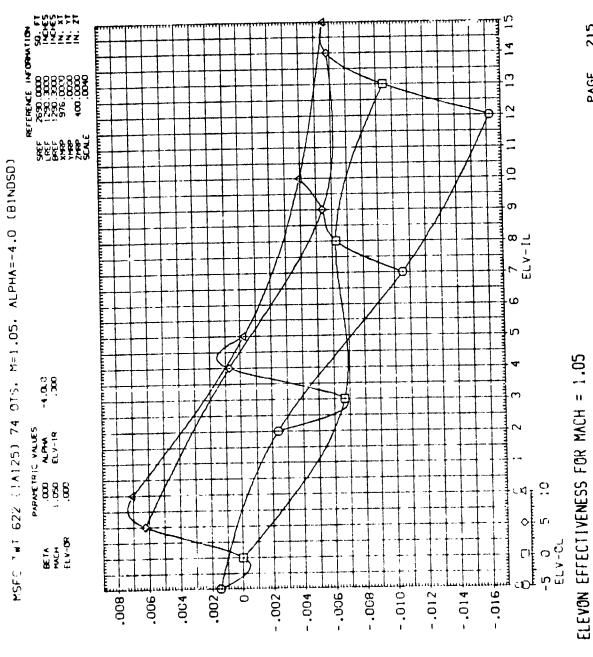
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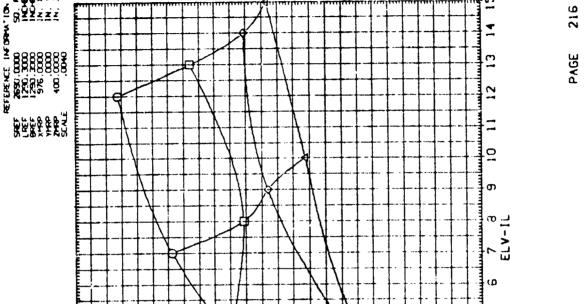


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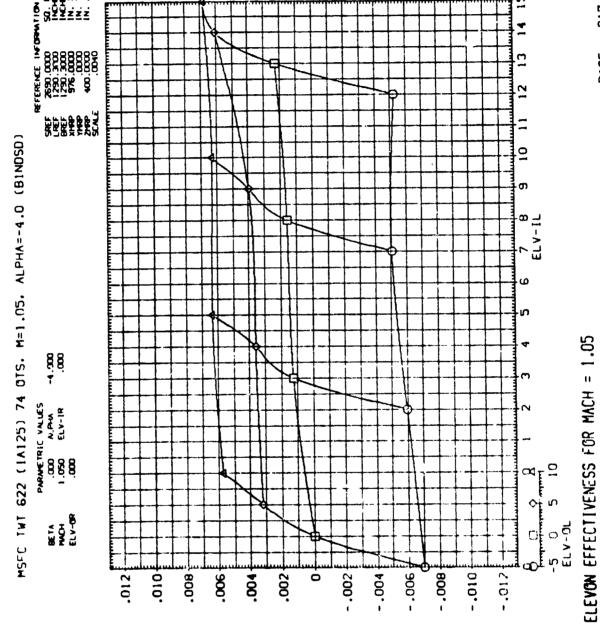
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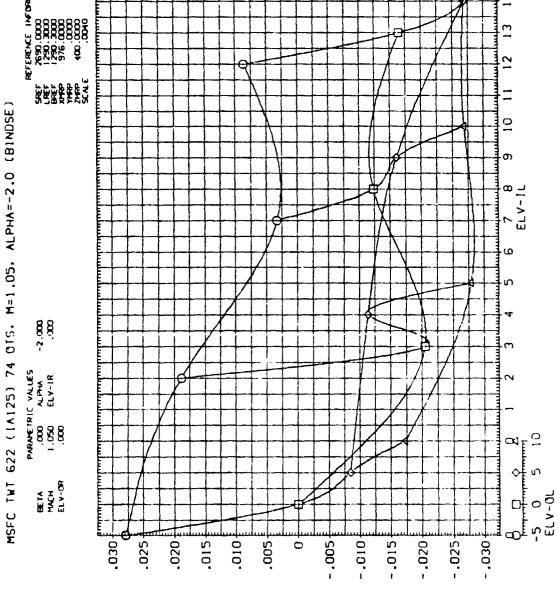
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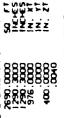
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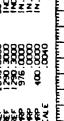






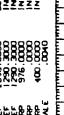


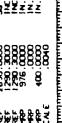




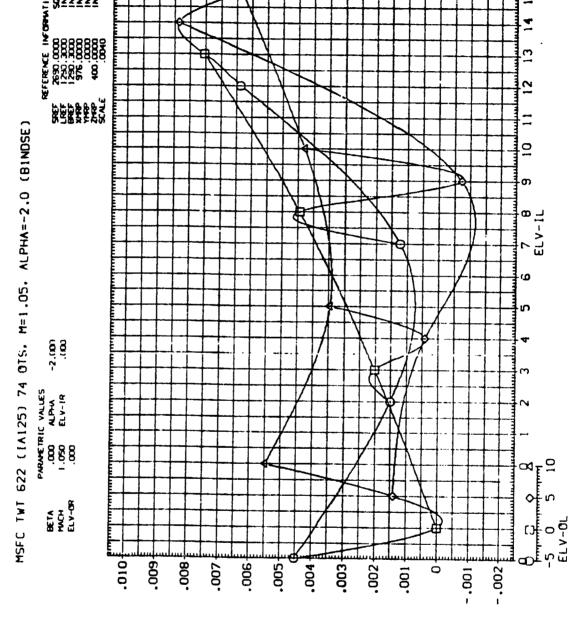








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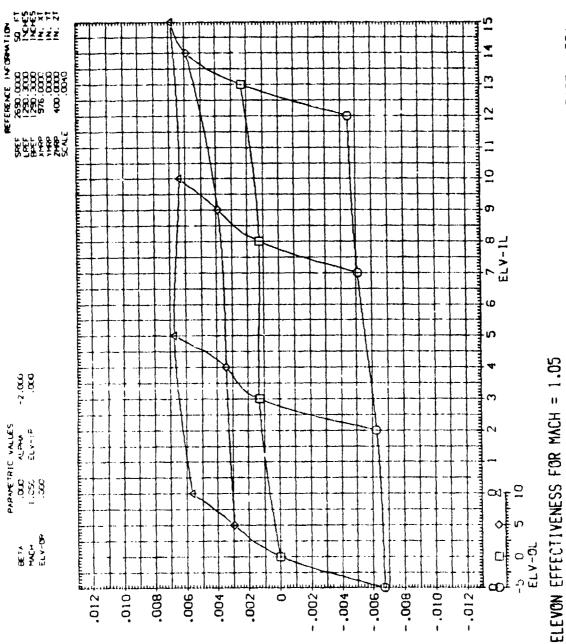
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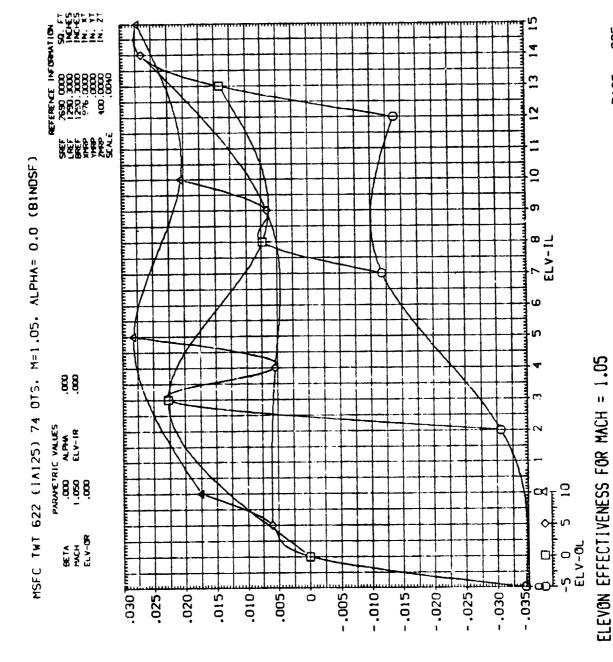


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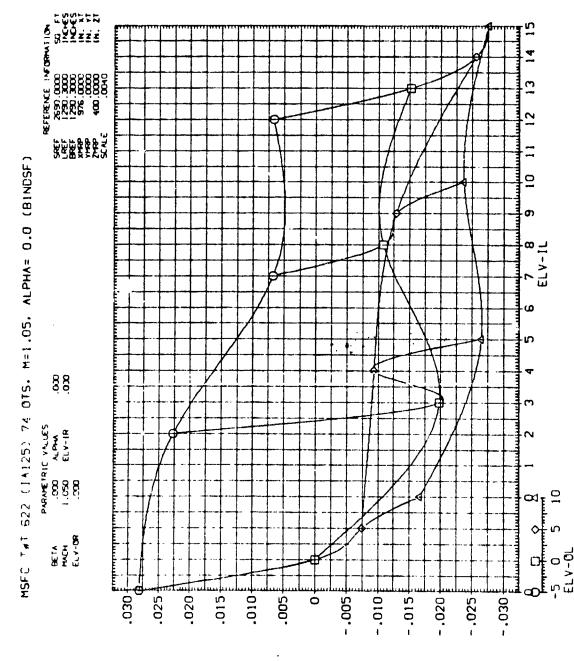
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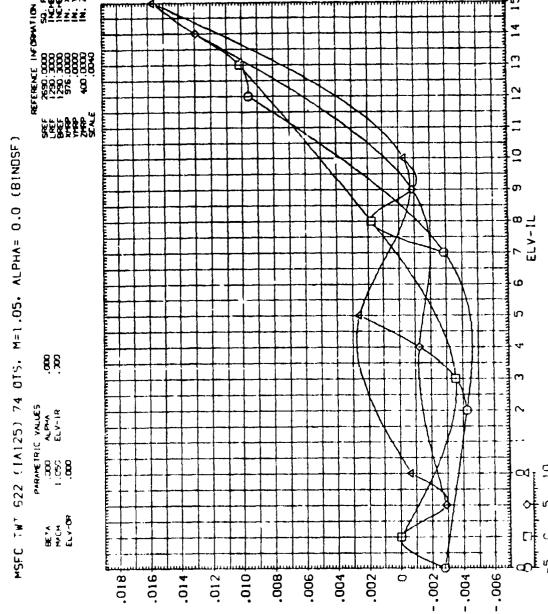
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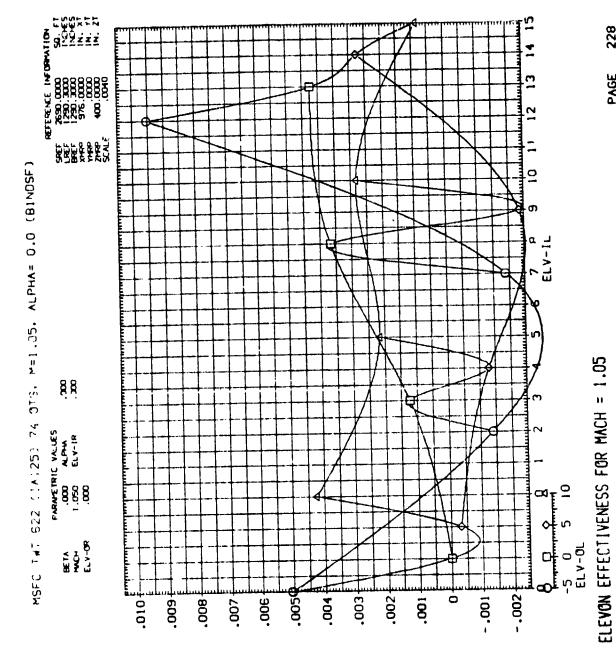
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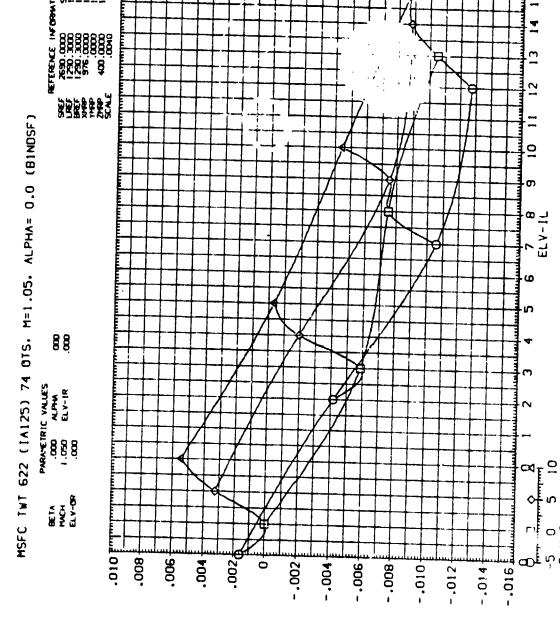
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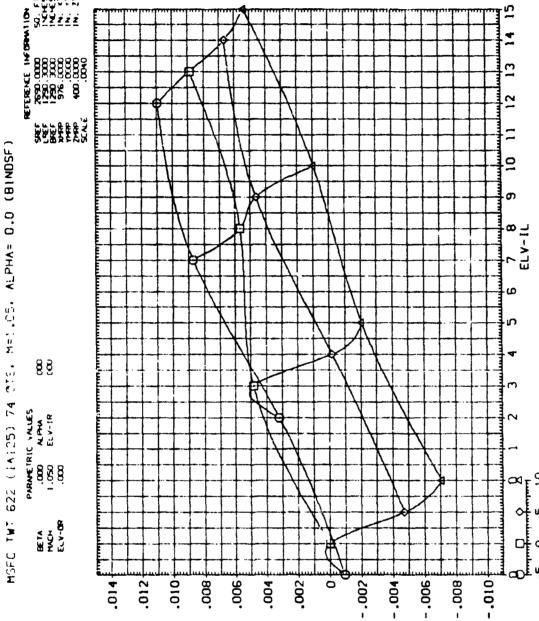


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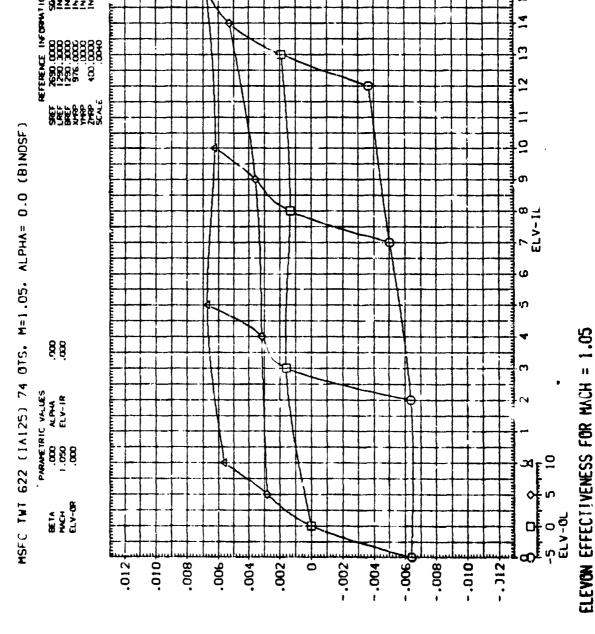




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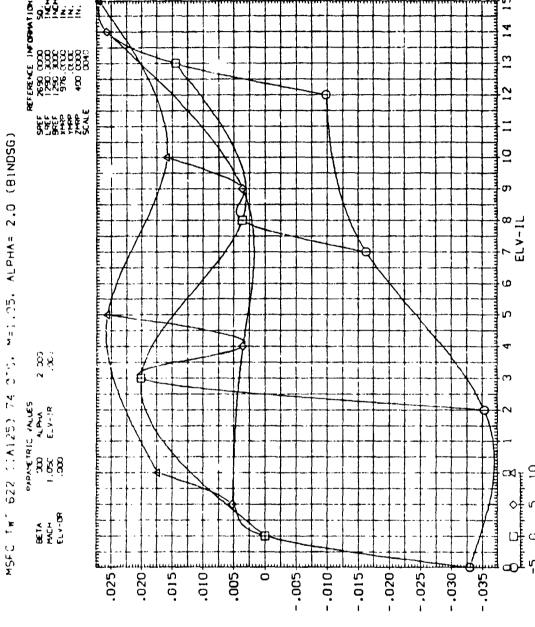
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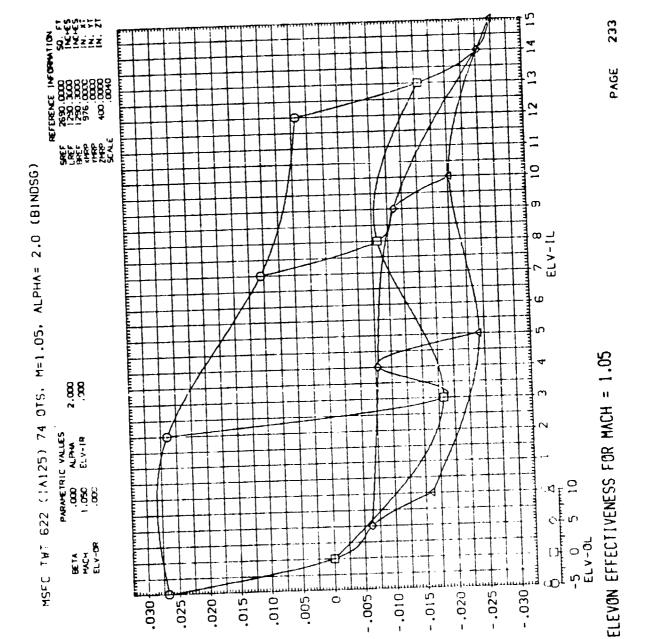
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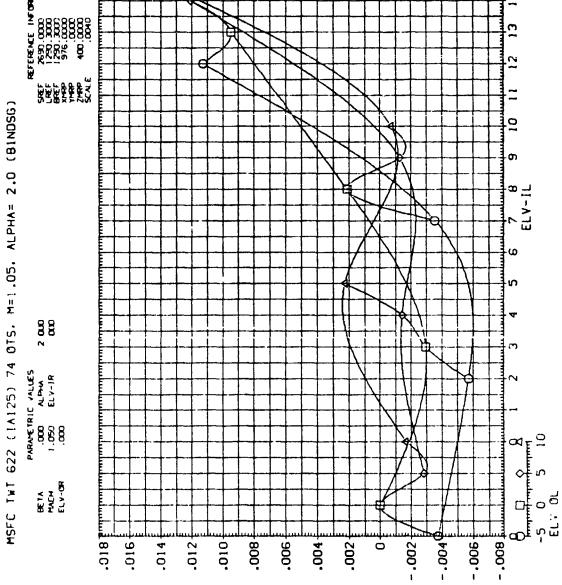
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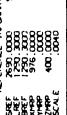
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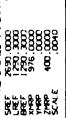
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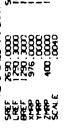


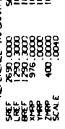












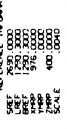




















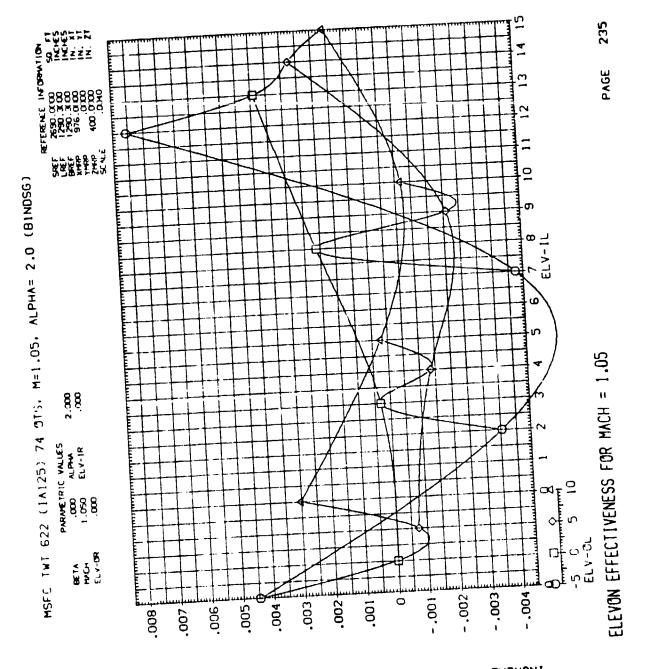






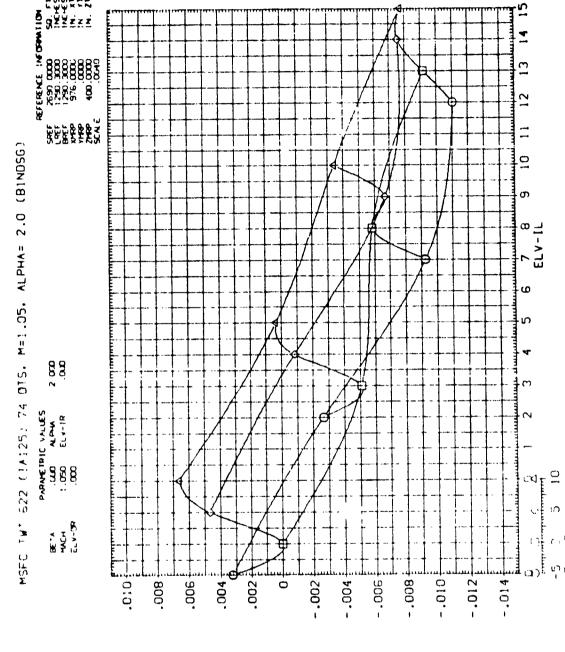




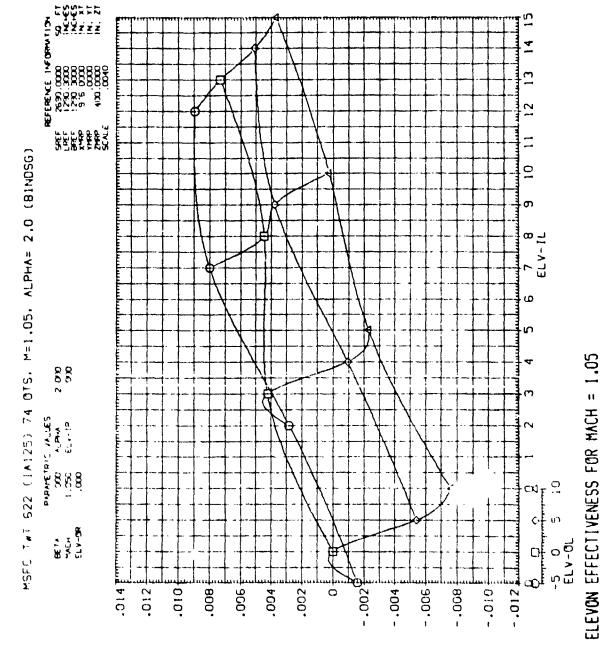


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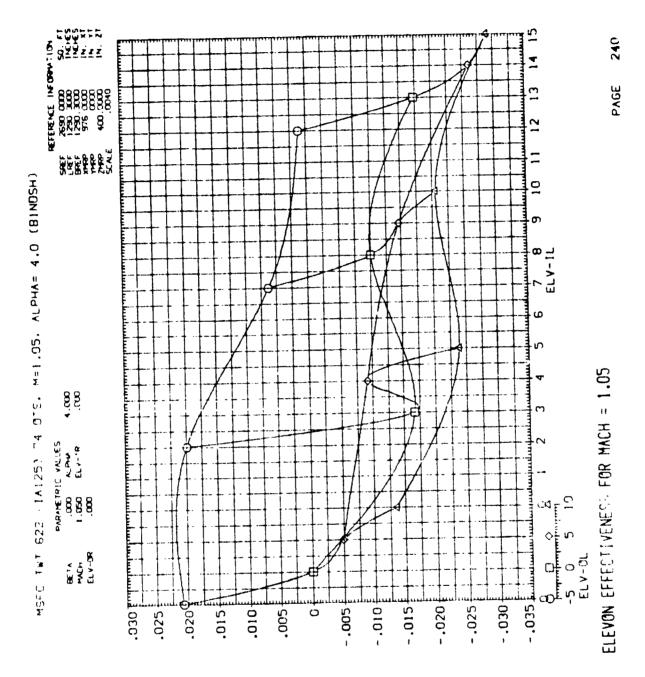


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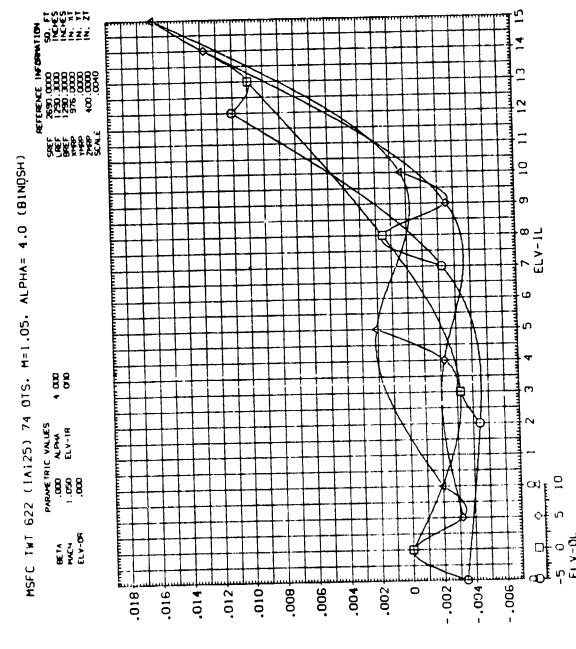
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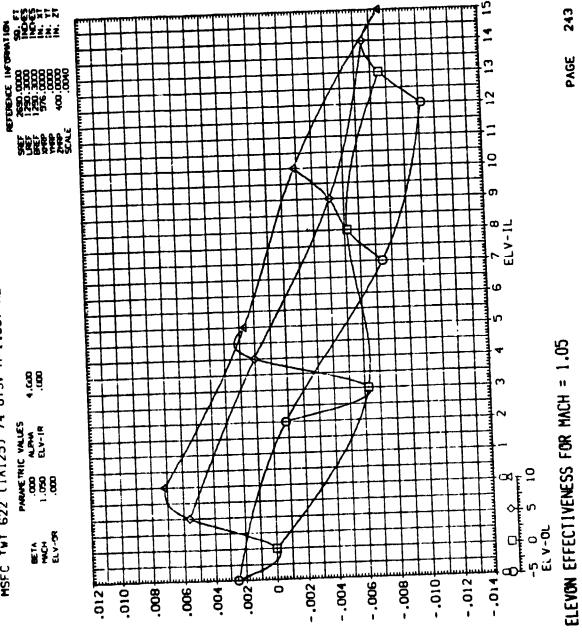




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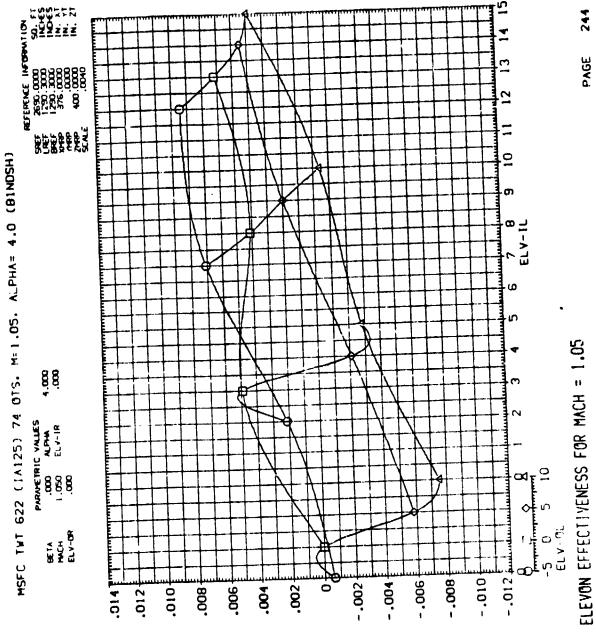


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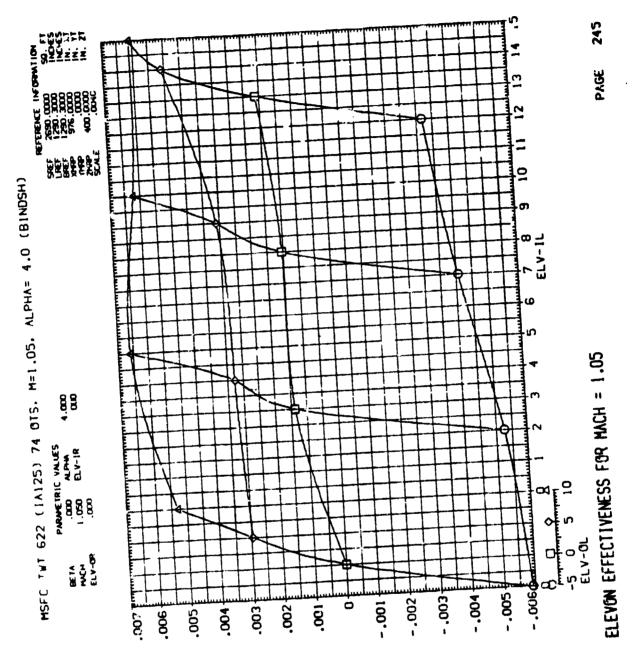
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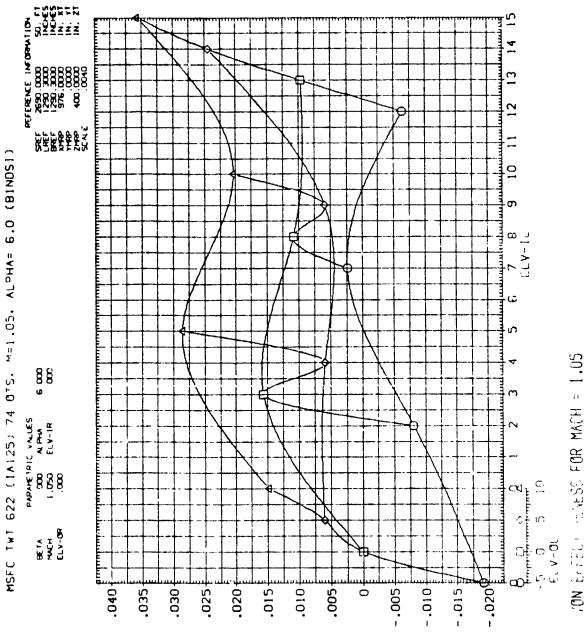
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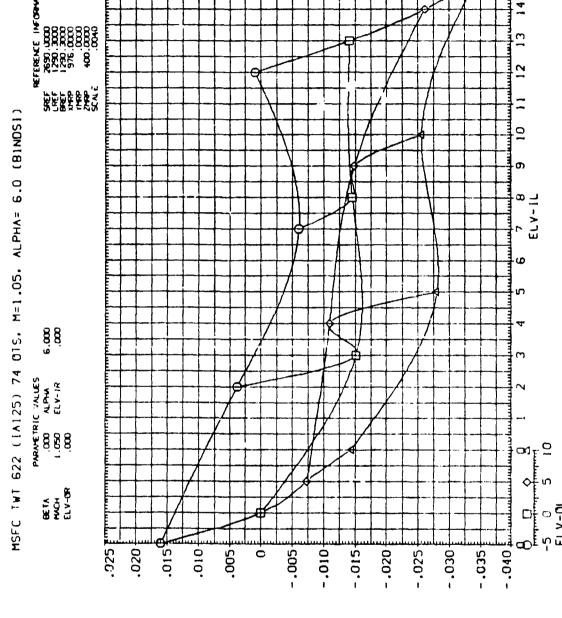
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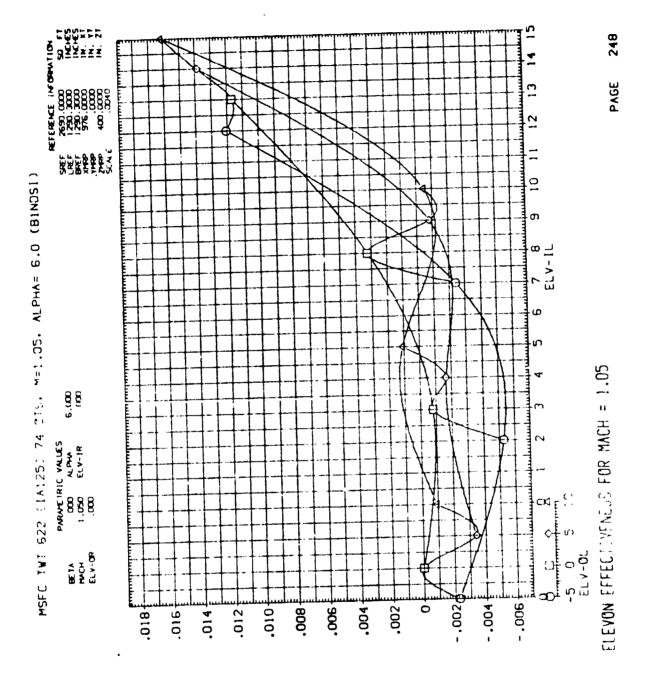


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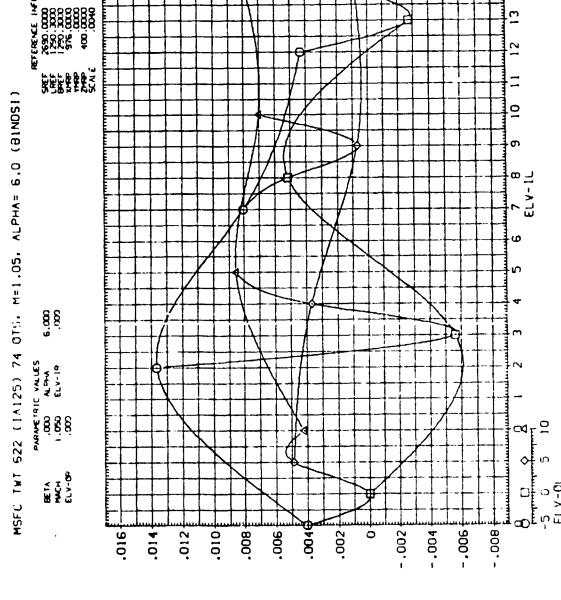
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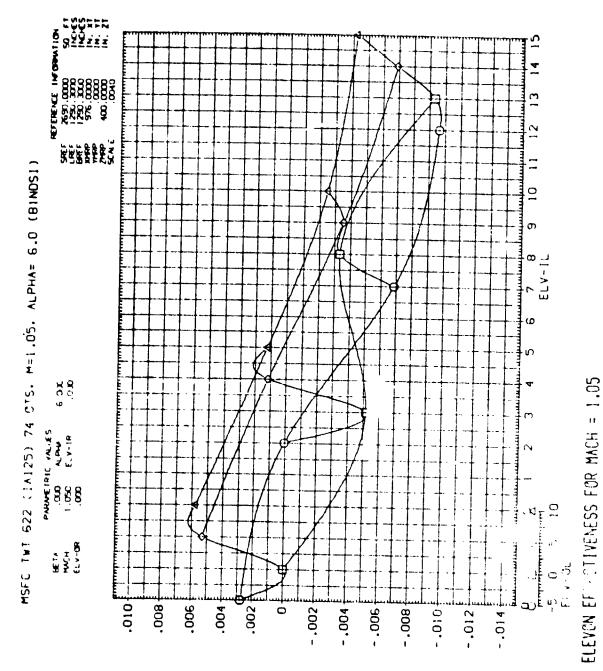
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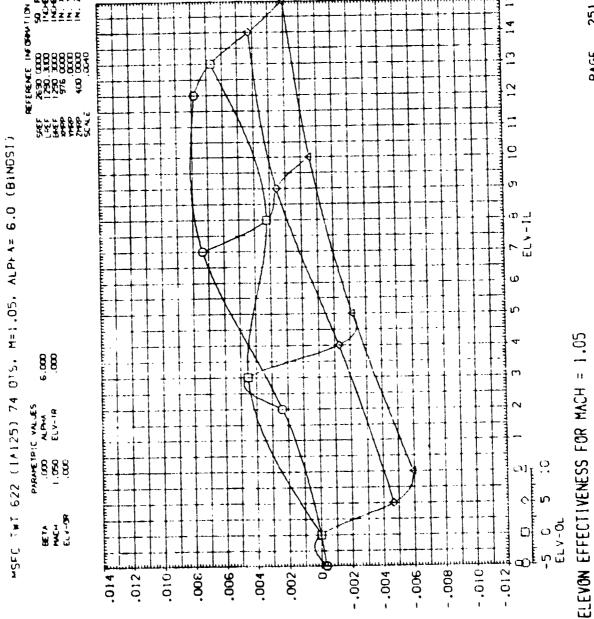
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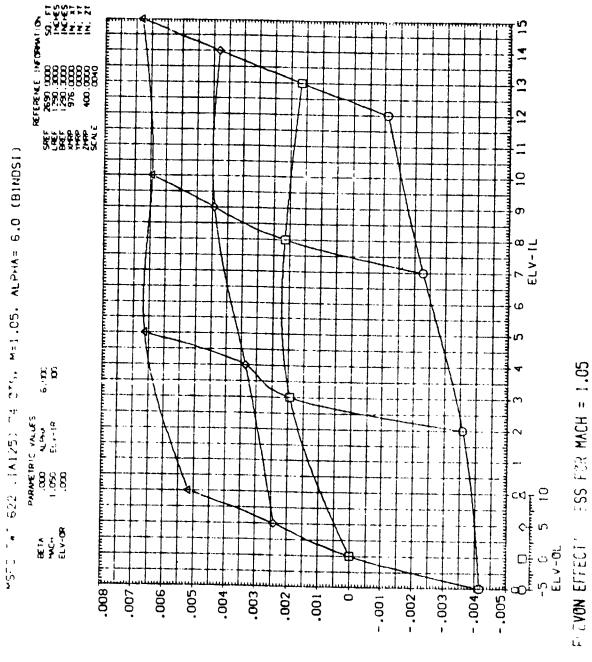




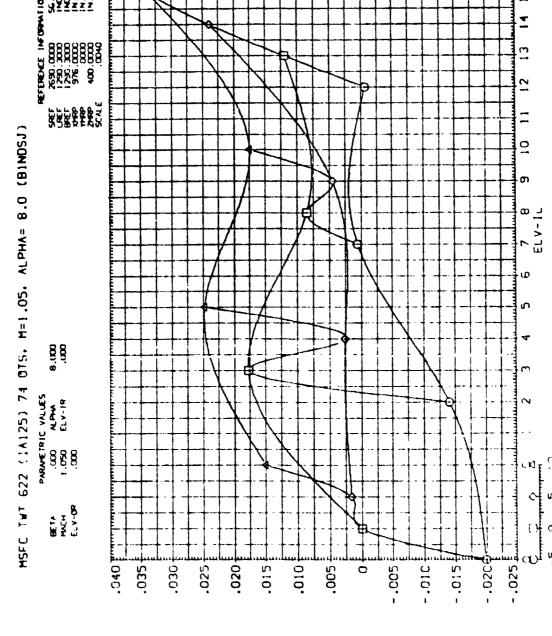
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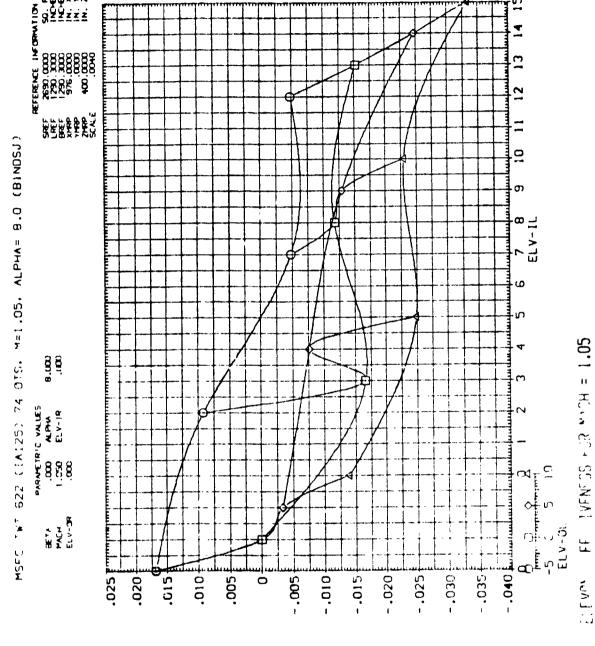




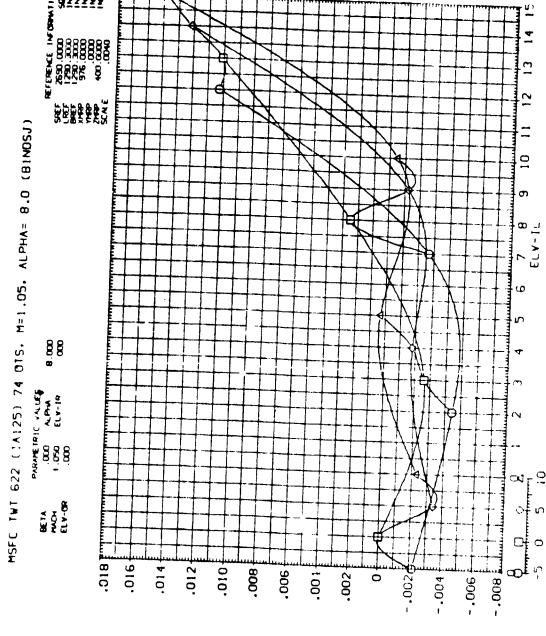
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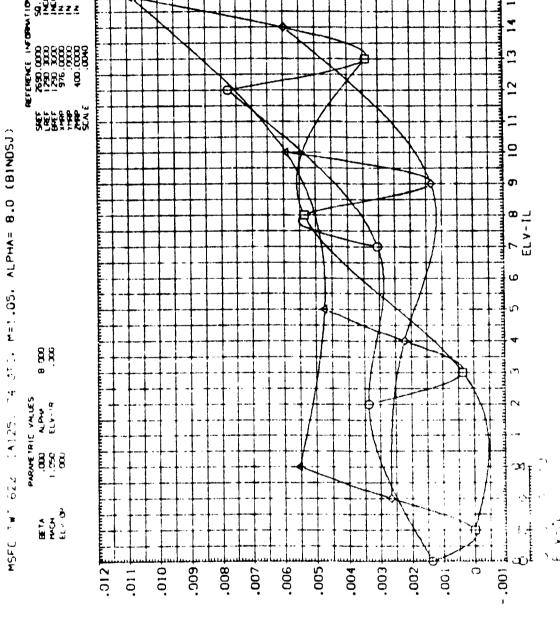


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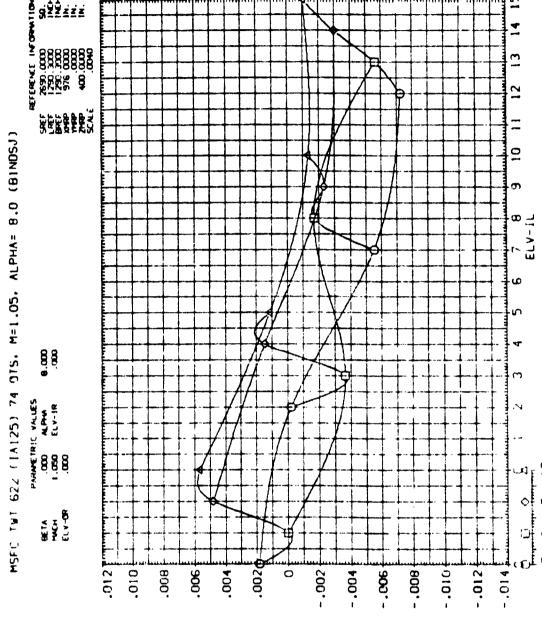
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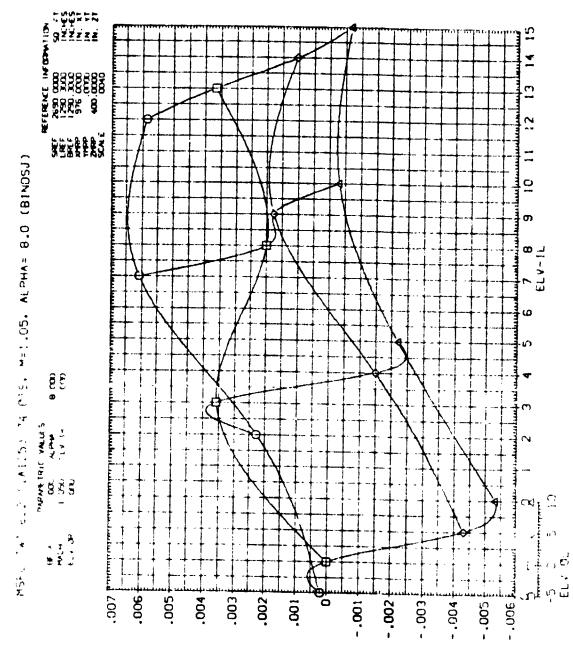
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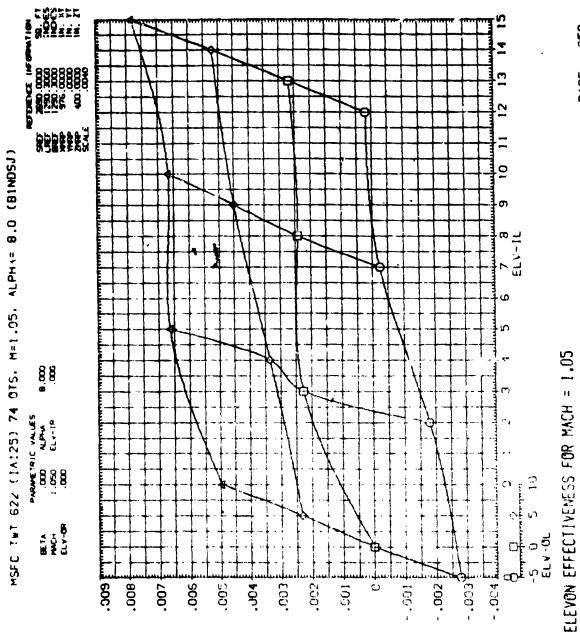
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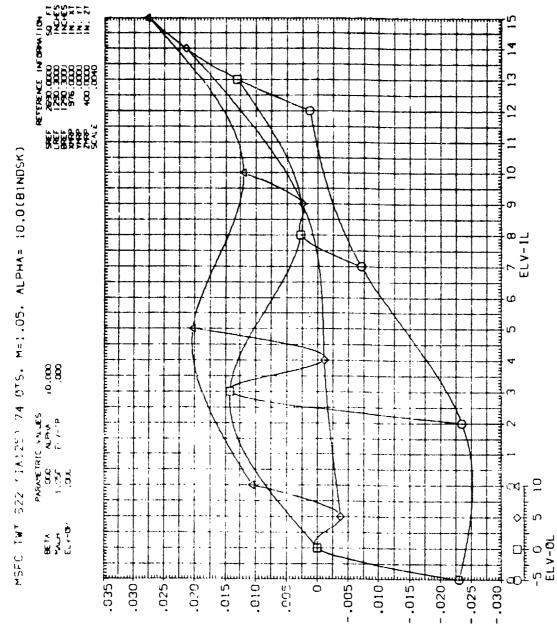


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INCREMENTAL NORMAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION, DCN

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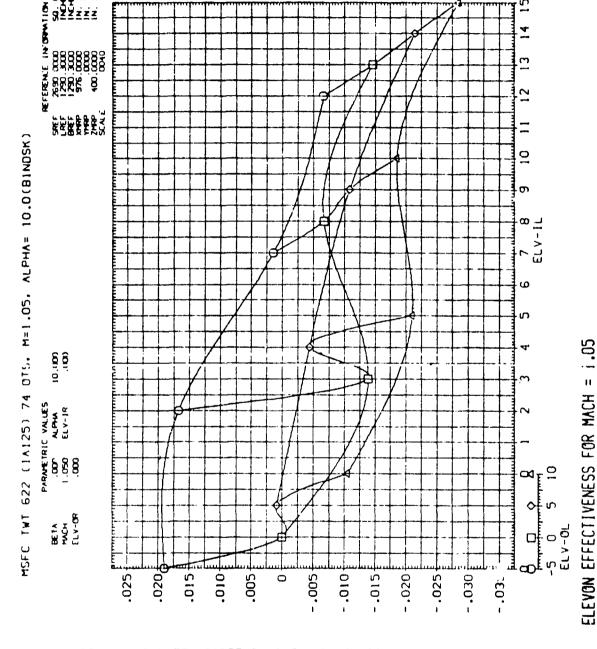
ELEVON EFFECTIVENESS FOR MACH = 1.05

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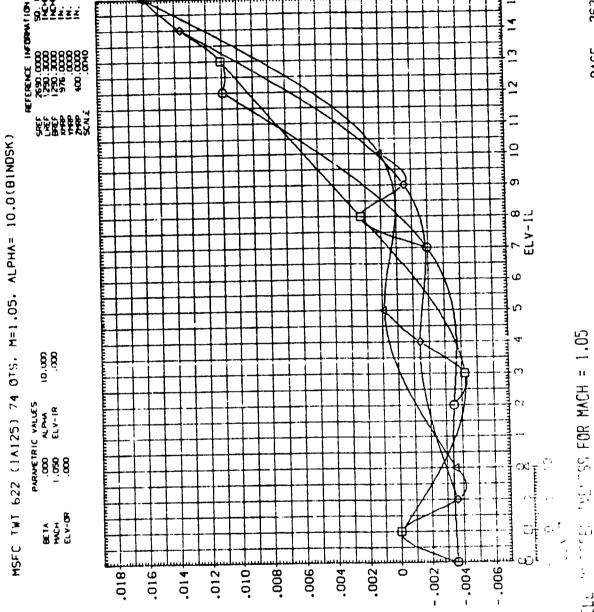
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INCREMENTAL PITCHING MOMENT COEFFICIENT DUE TO ELEYON DEFLECTION. DCLM

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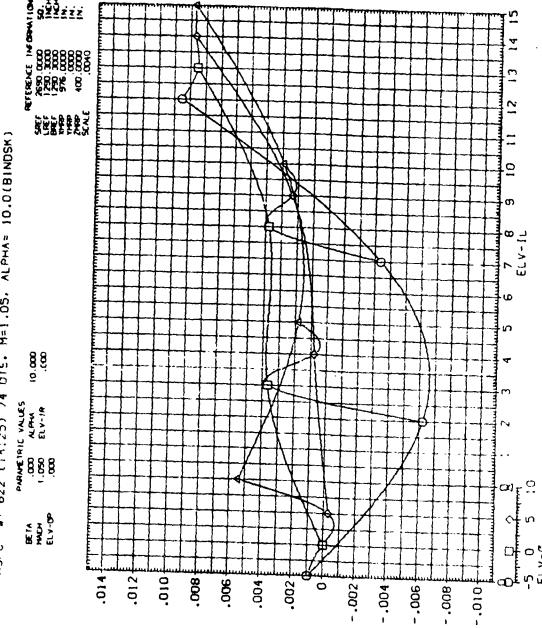
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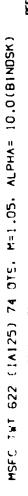


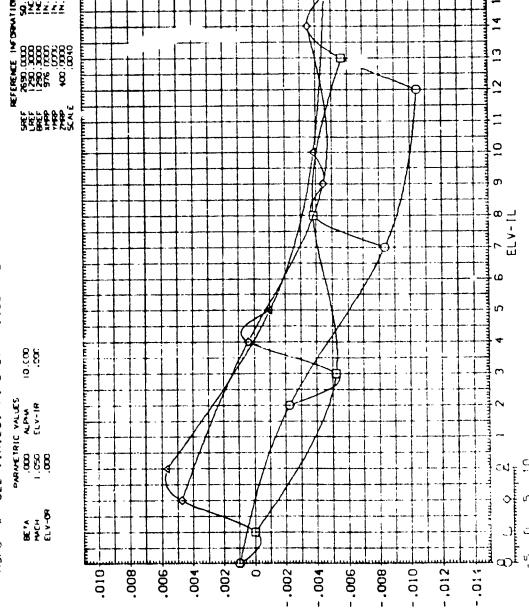
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MSFC TWT 622 (14:25) 74 015. M=1.05. ALPHA= 10.0(BINDSK)

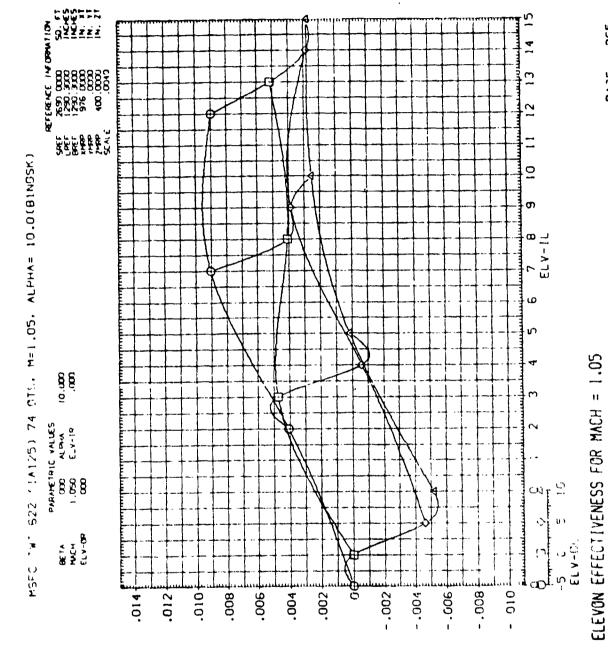


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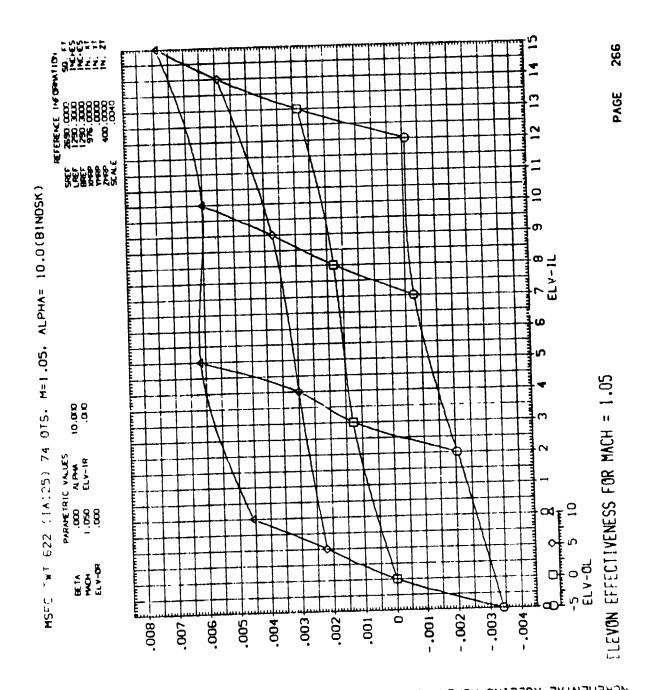




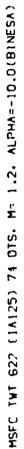
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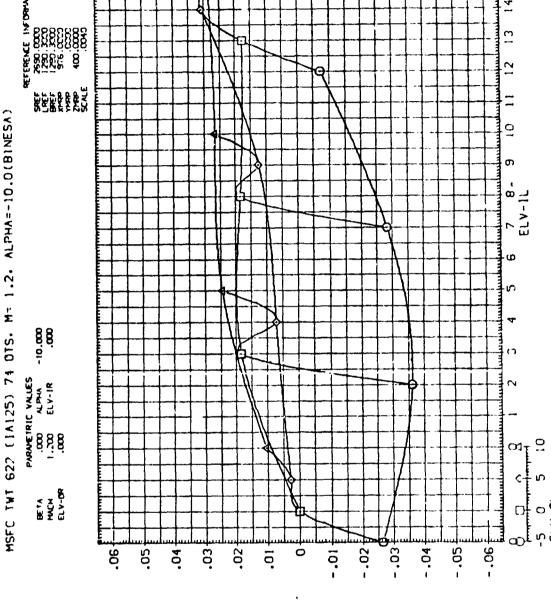
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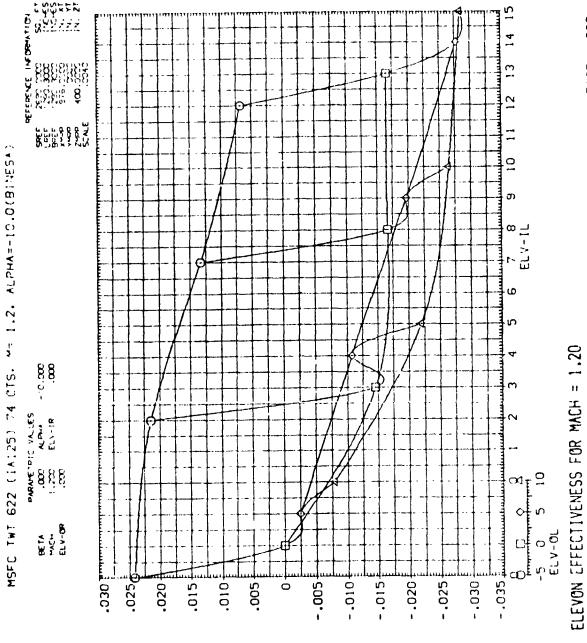
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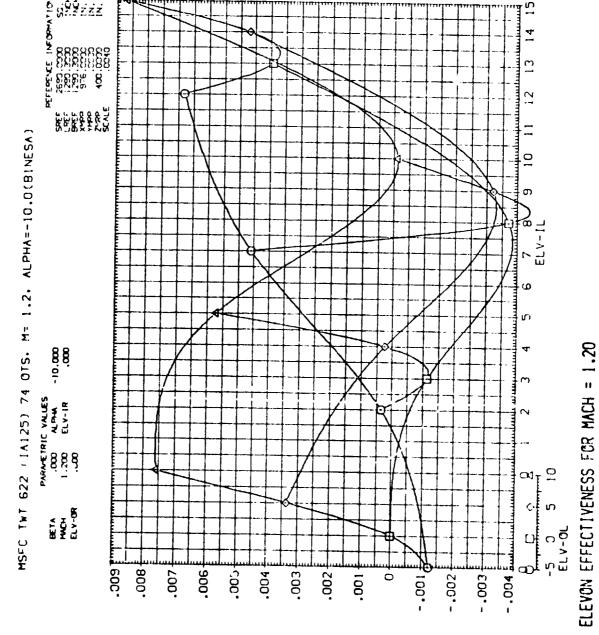


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INCREMENTAL PITCHING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION, DCLM

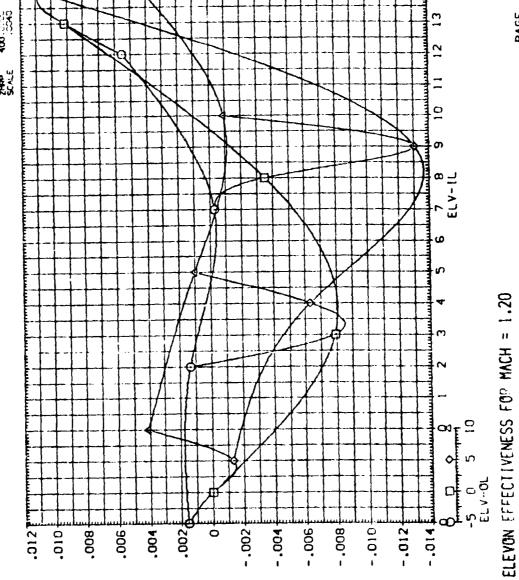
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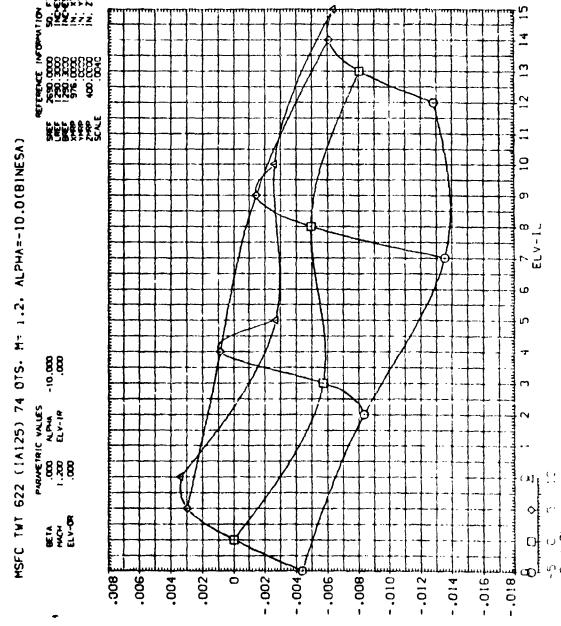
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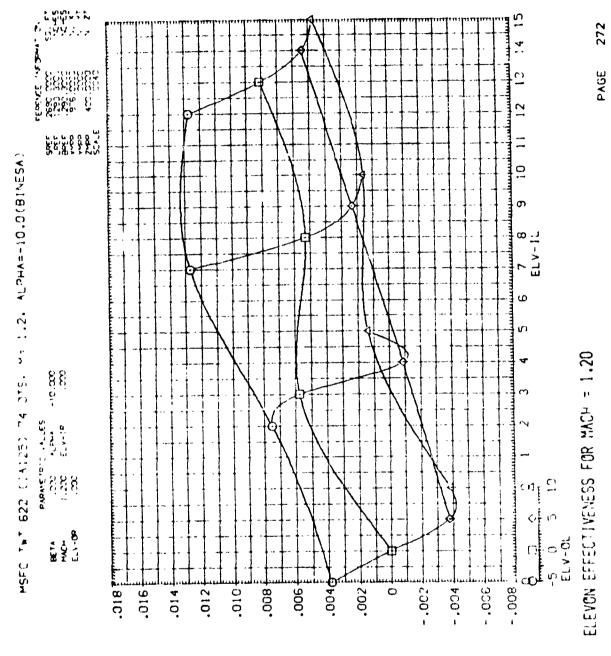
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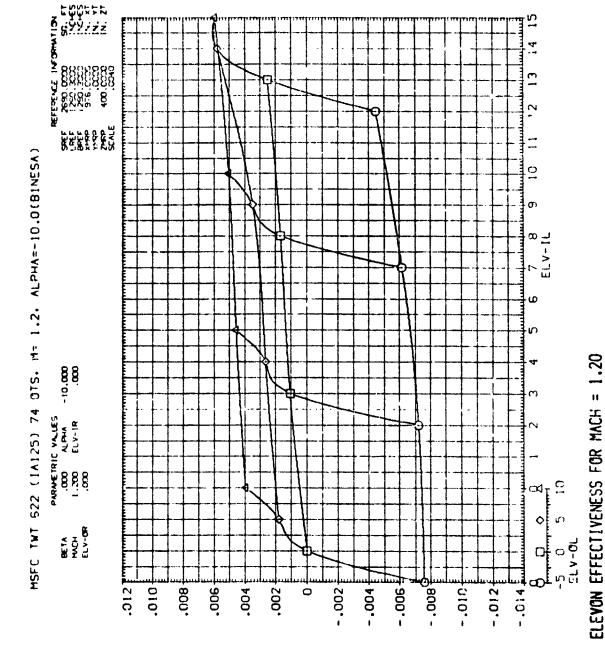
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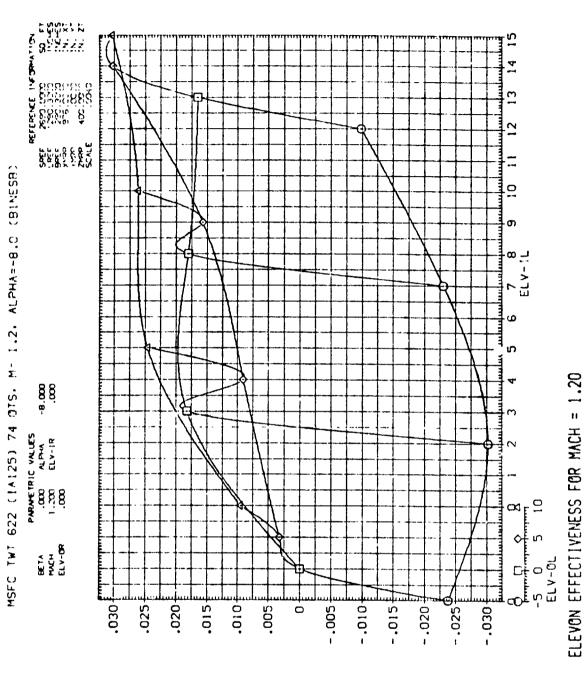
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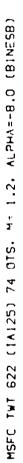
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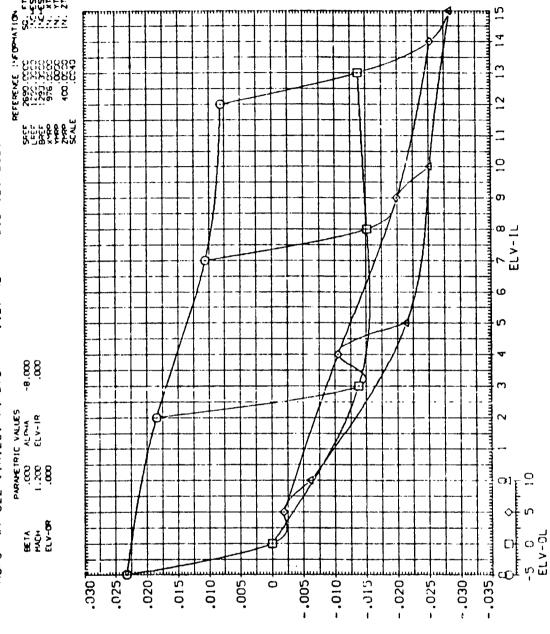




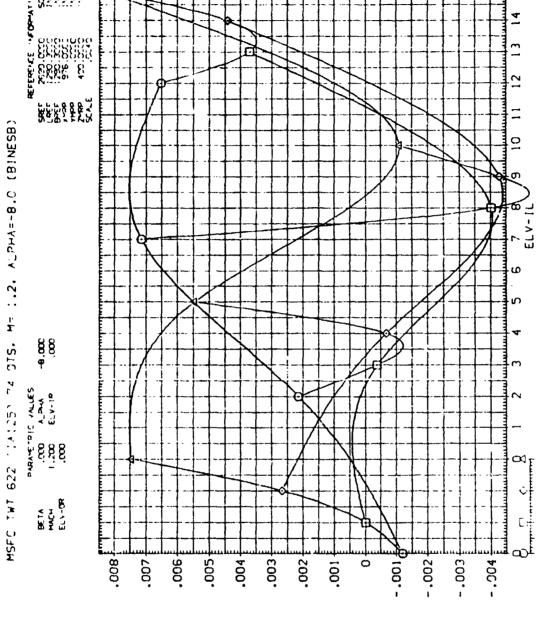
INCREMENTAL NORMAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION, DON



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INCREMENTAL PITCHING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION, DCLM

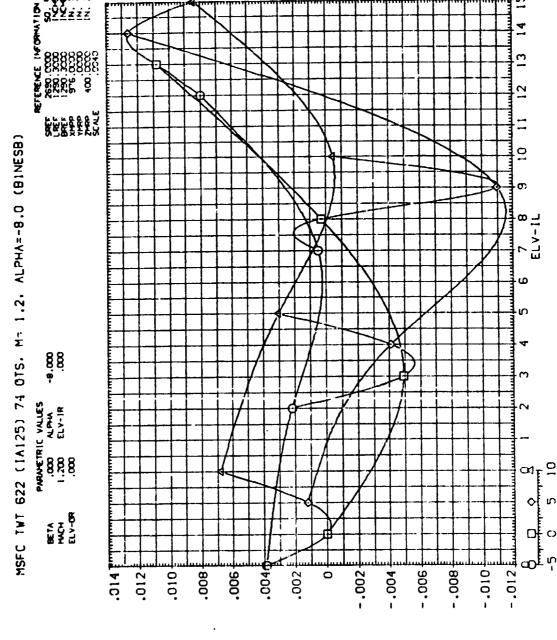


INCREMENTAL AXIAL FORCE COEFFICIENT OUE TO ELEVON DEFLECTION. DCA

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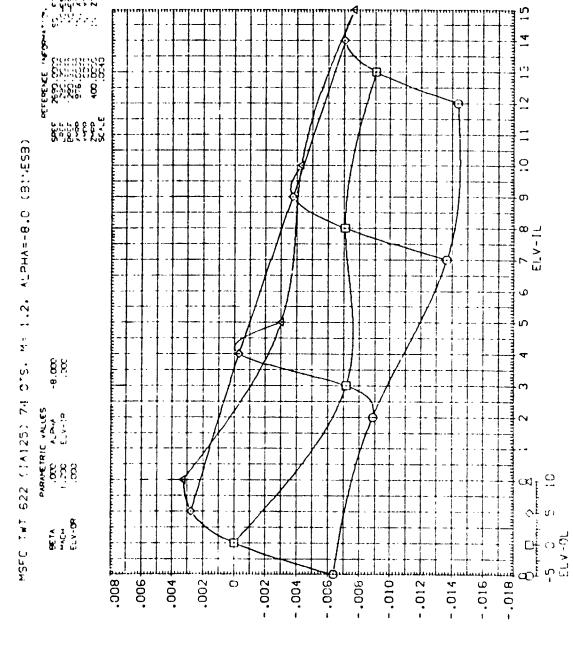
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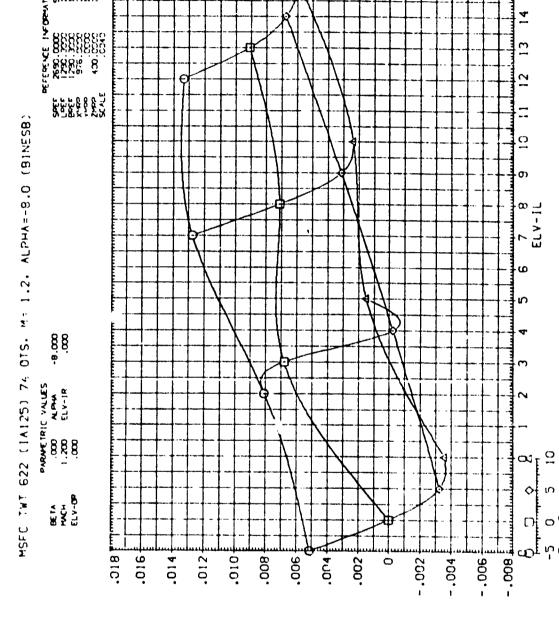


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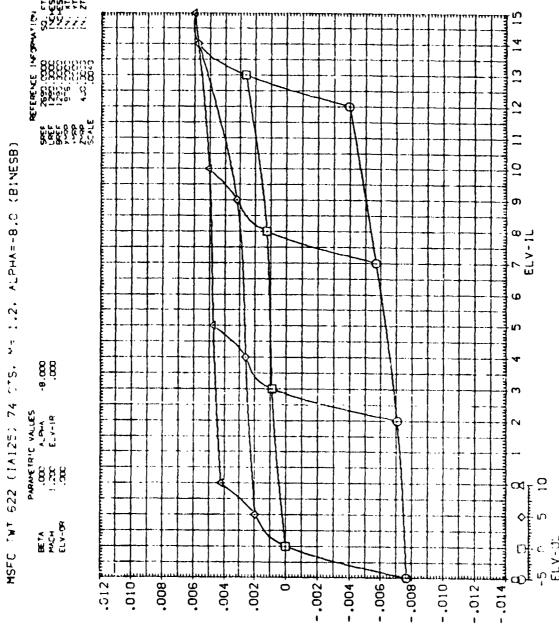
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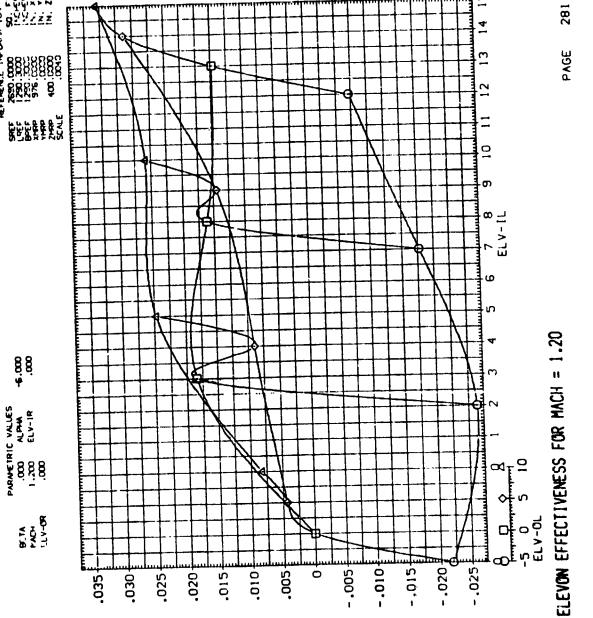
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MSFC TWT 622 (1A125) 74 OTS. M= 1.2, ALPHA=-6.0 (BINESC)

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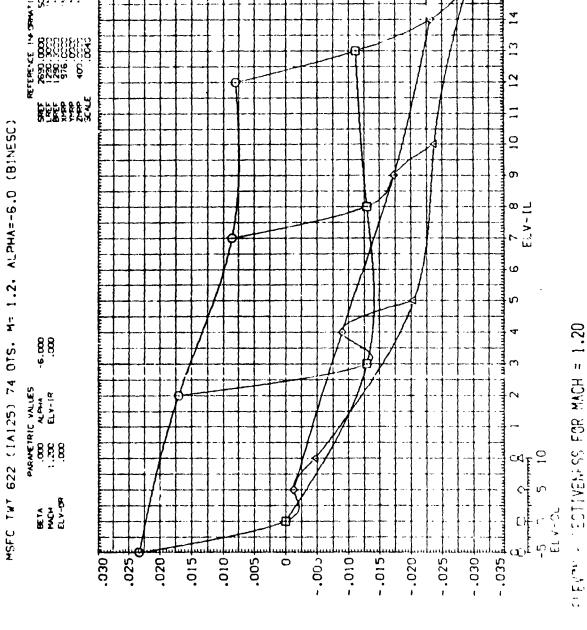
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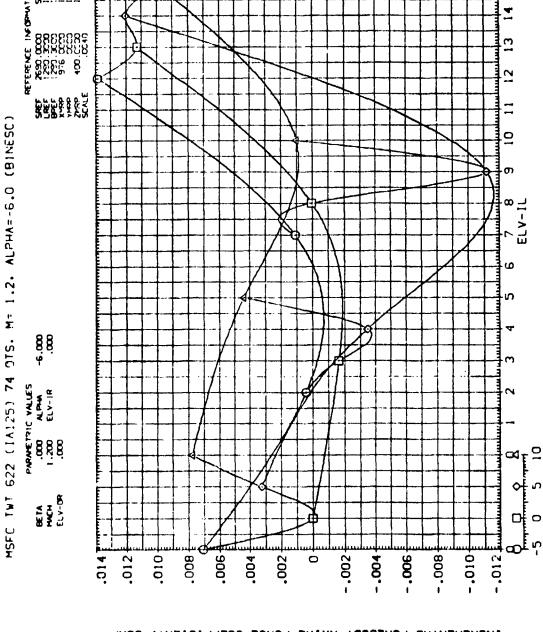
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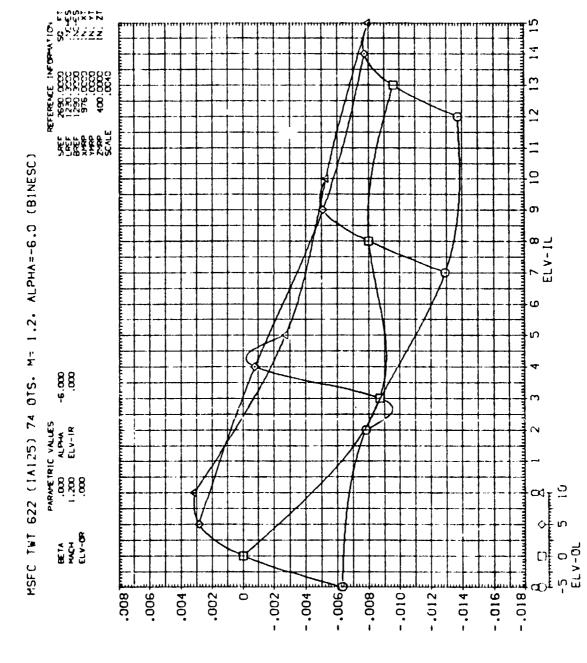
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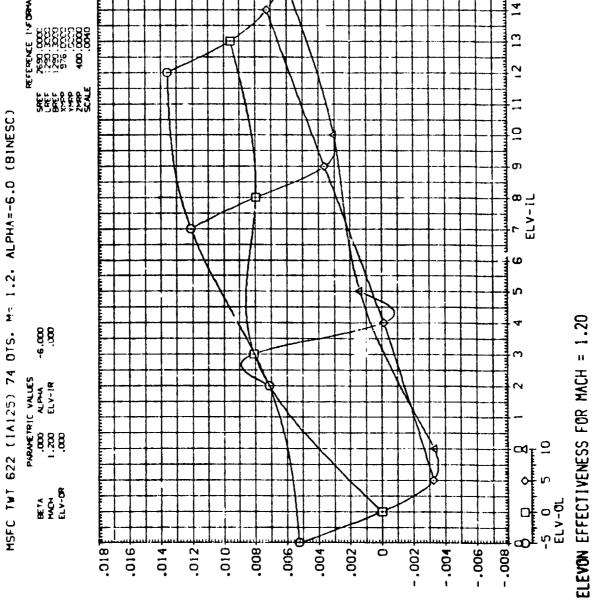


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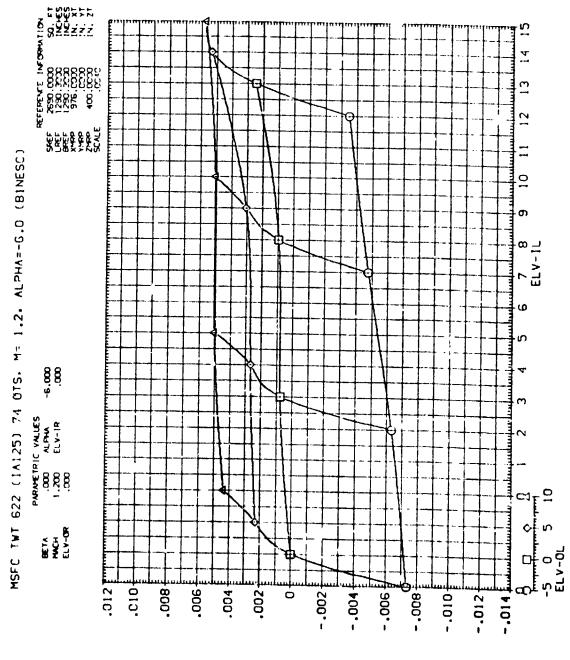


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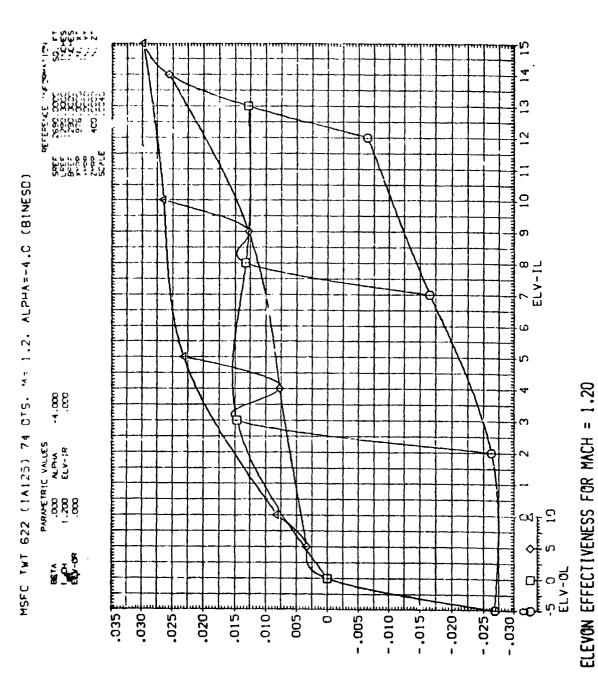
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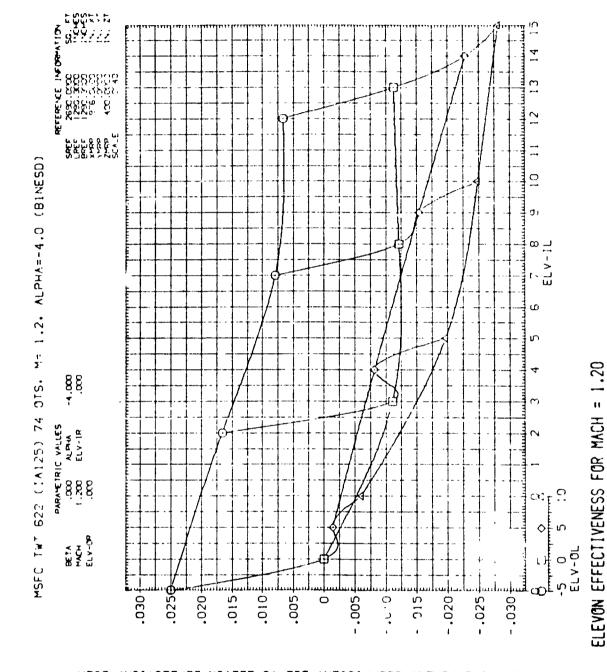
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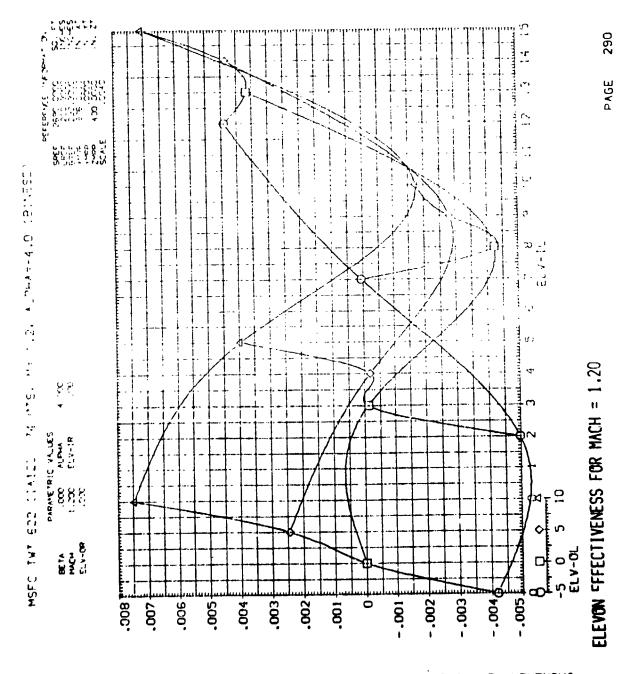
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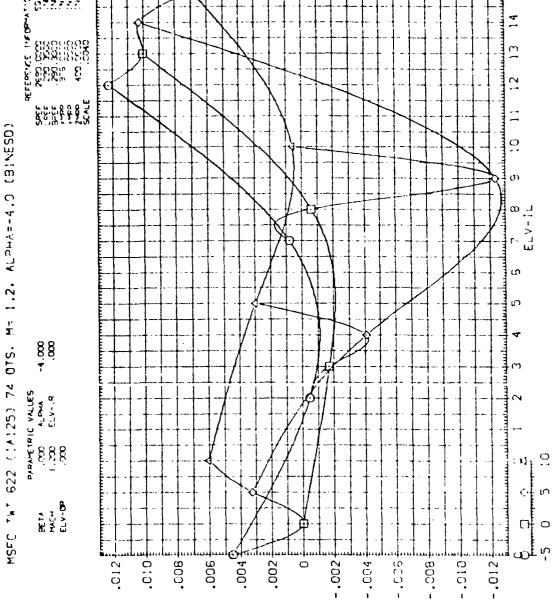
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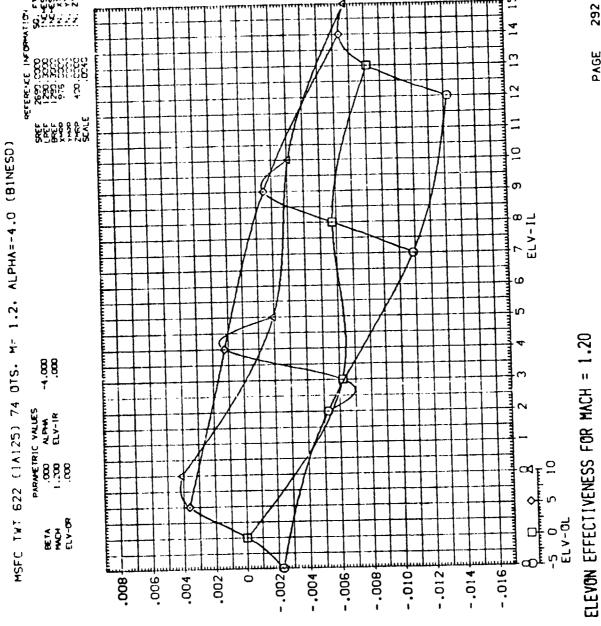


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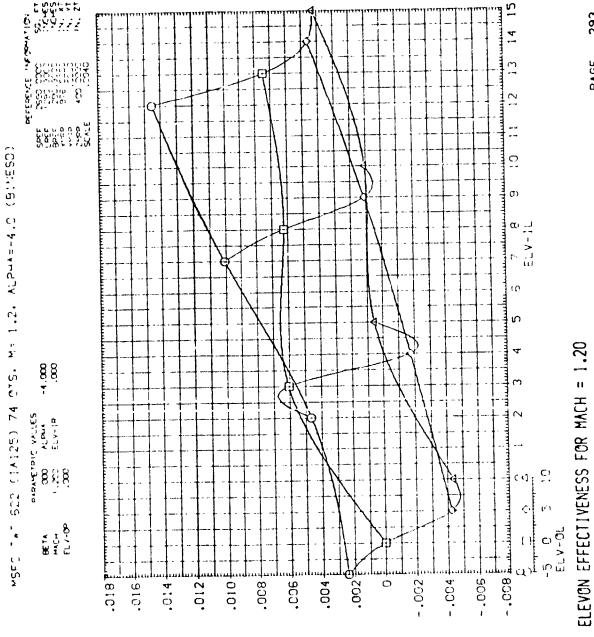
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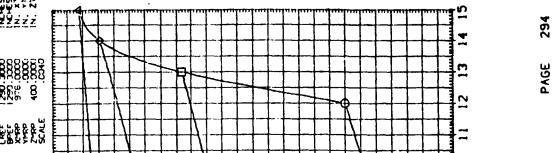


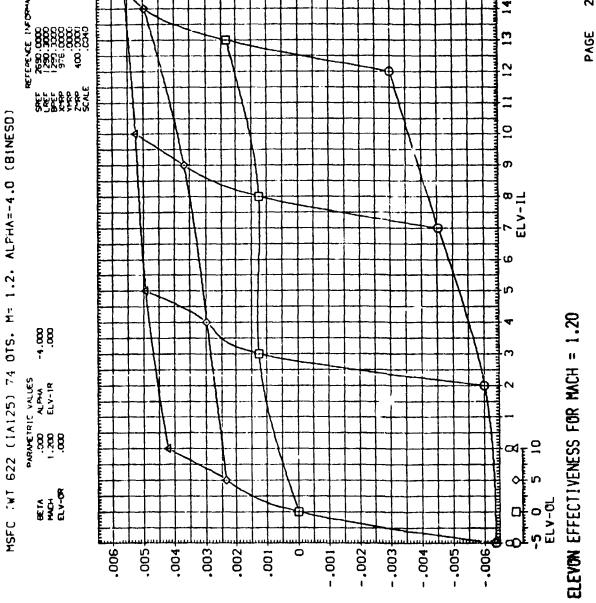


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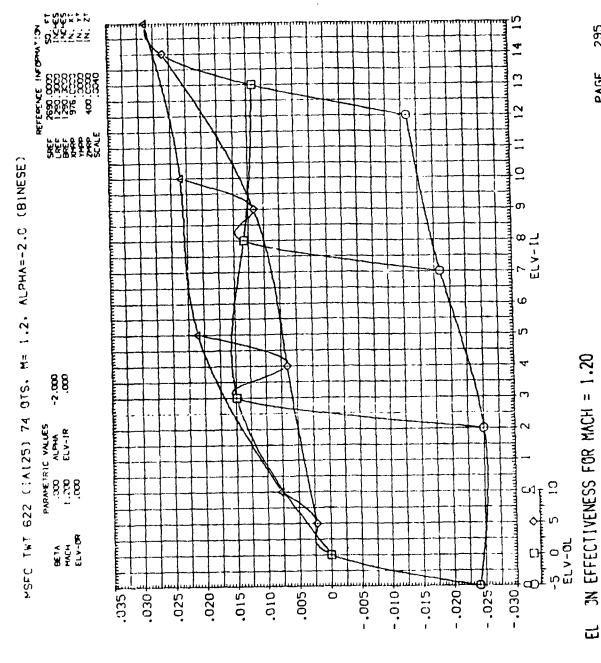




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MSFC :WT 622 (1A125) 74 015.



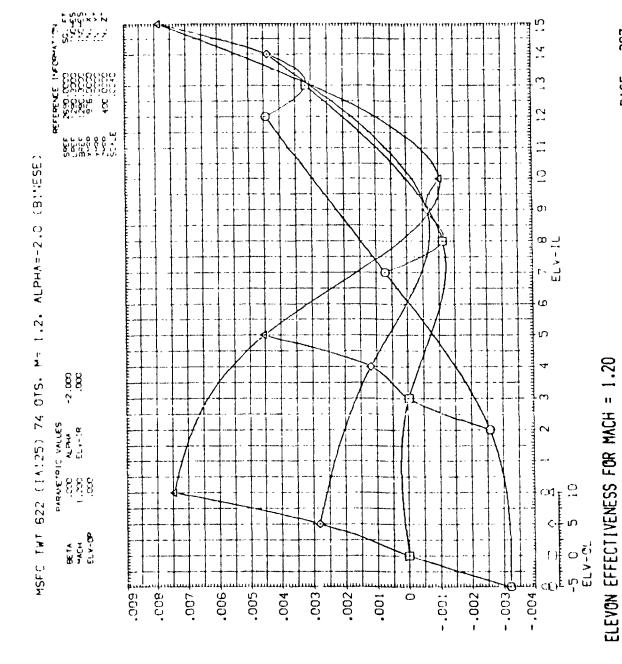


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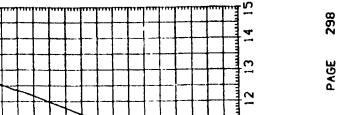
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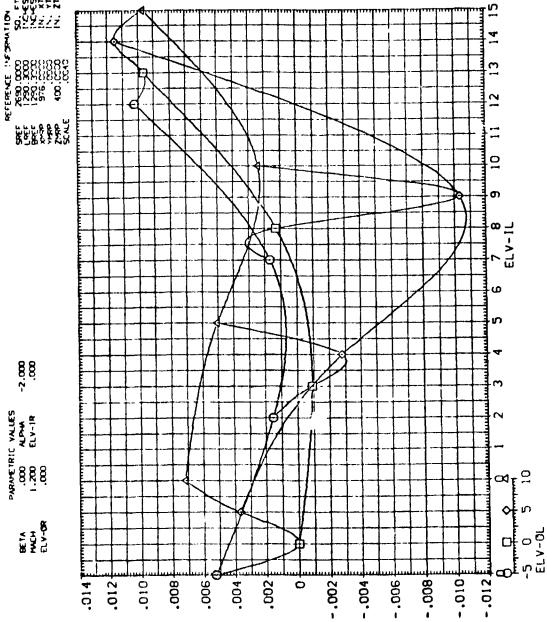


INCREMENTAL AXIAL FORCE COEFFICIENT OUE TO ELEVON DEFLECTION, DCA

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INCREMENTAL FOREBOOY AXIAL FORCE COEFFICIENT, DCAF

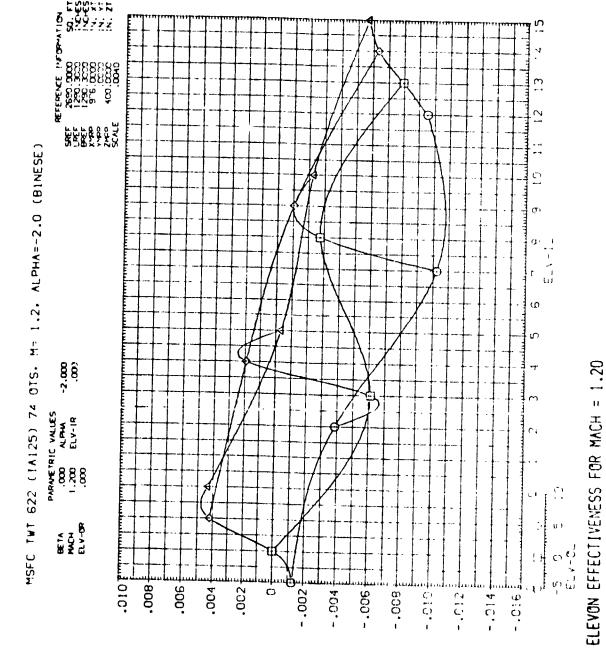
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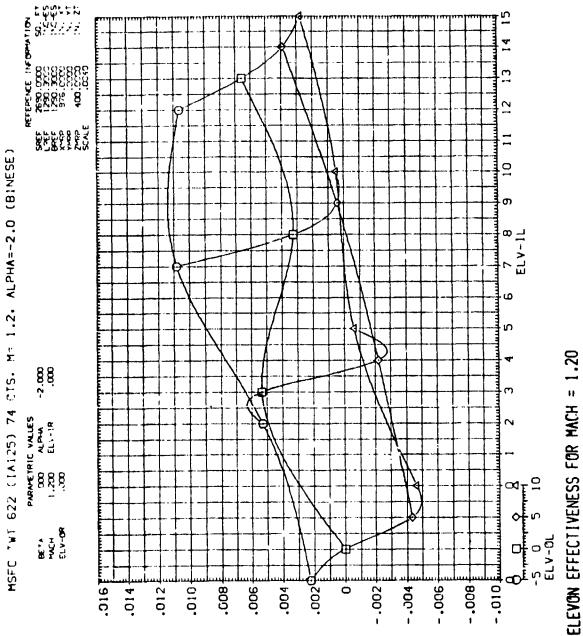
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ELEVON EFFECTIVENESS FOR MACH = 1.20



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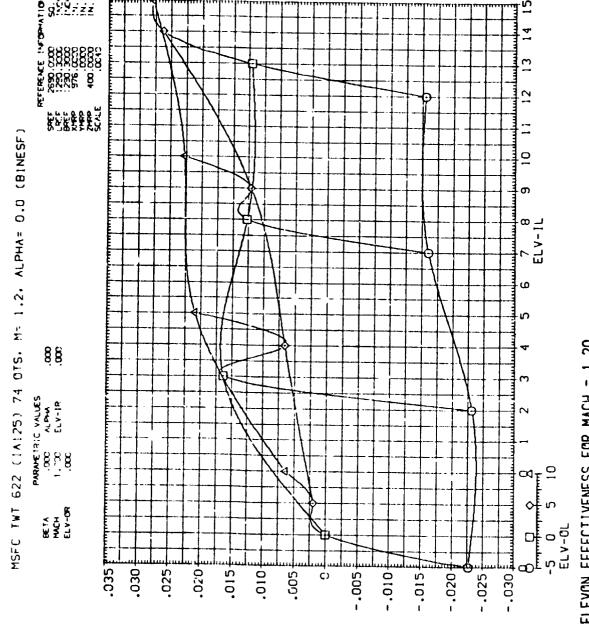




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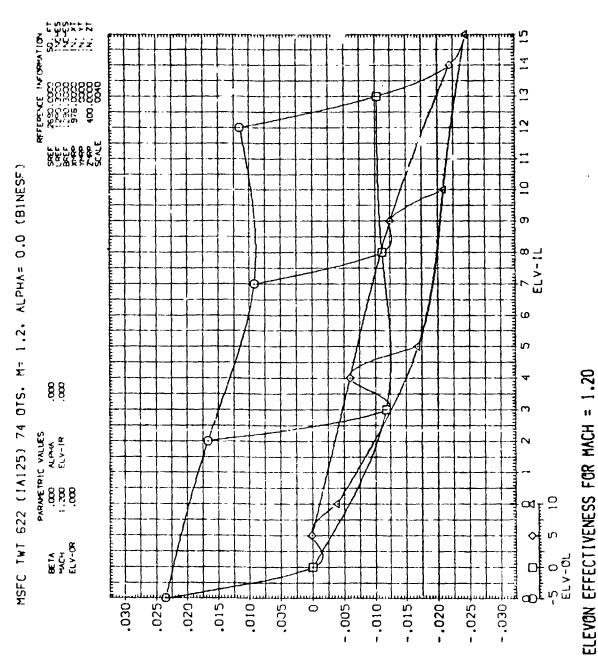
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ELEVON EFFECTIVENESS FOR MACH = 1.20

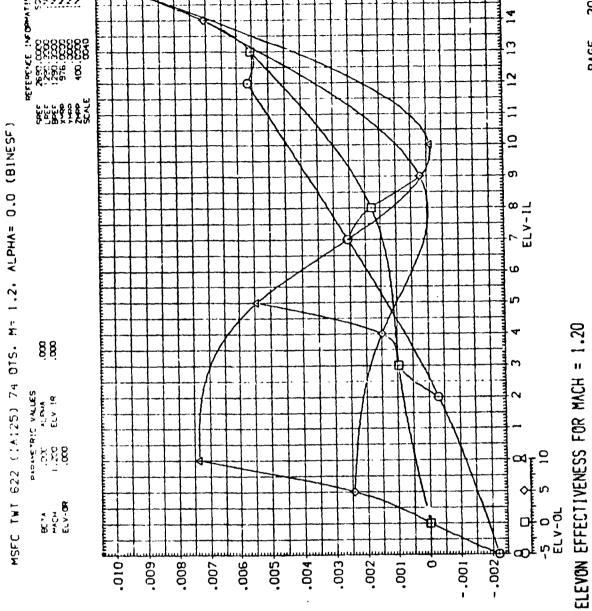
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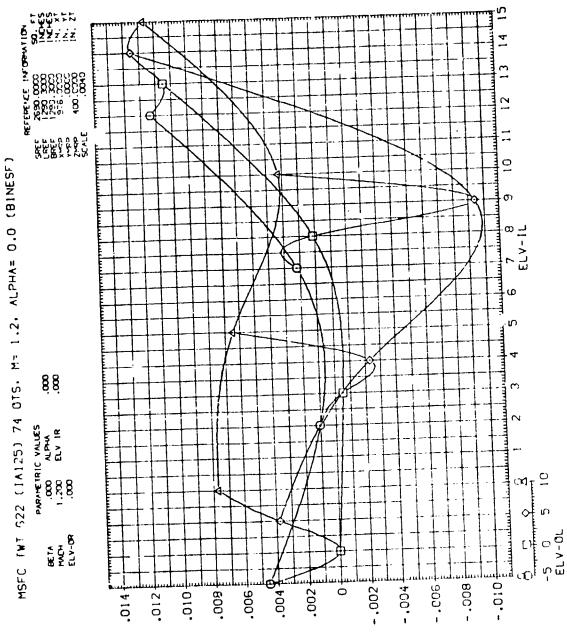


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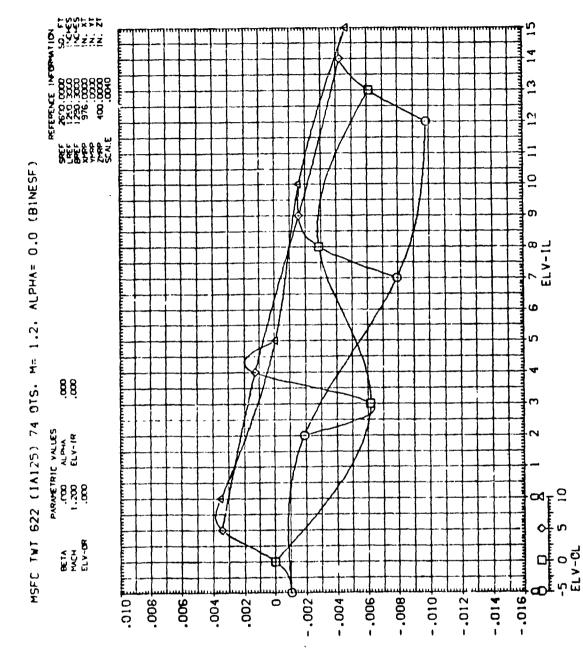


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INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF

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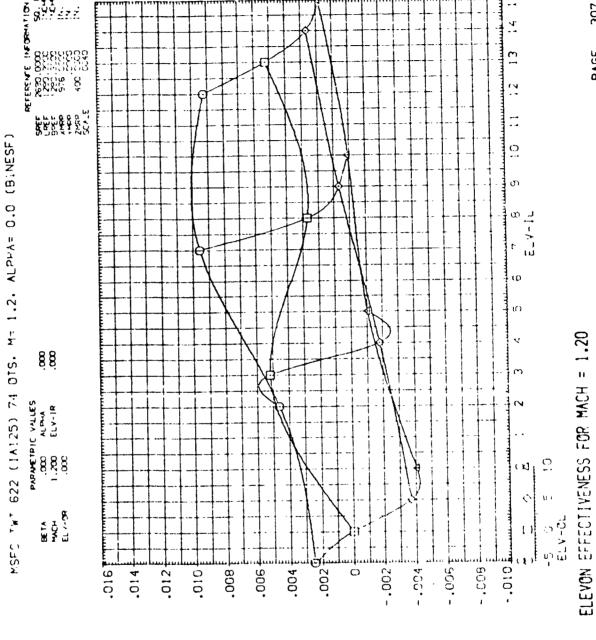


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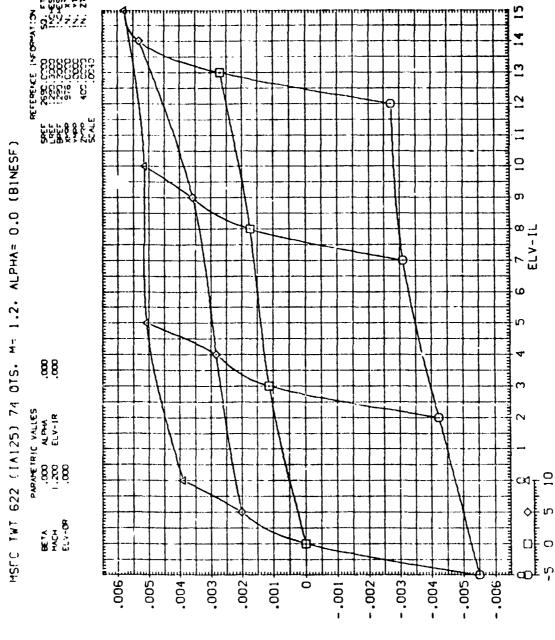
ELEVON EFFECTIVENESS FOR MACH = 1.20



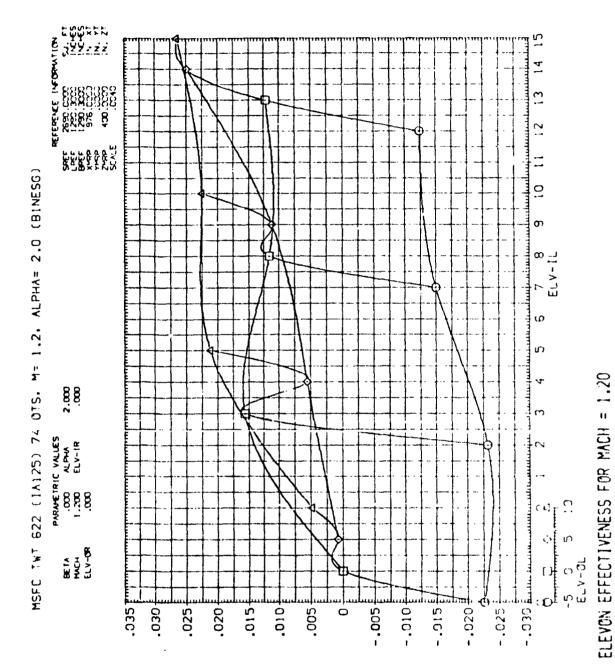


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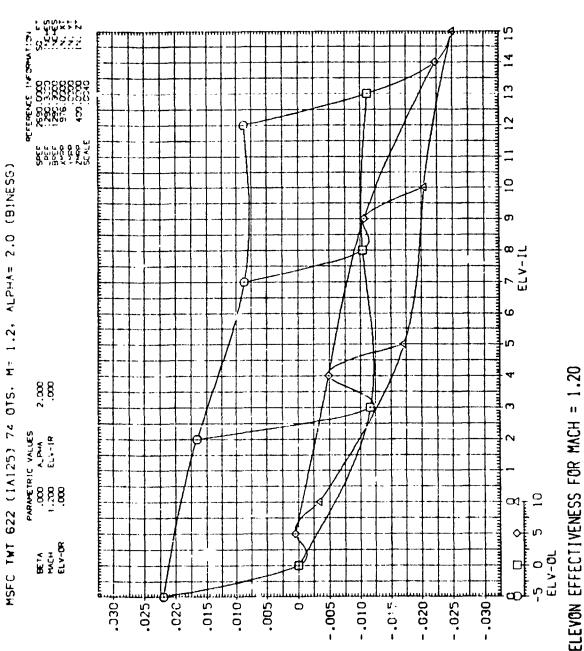
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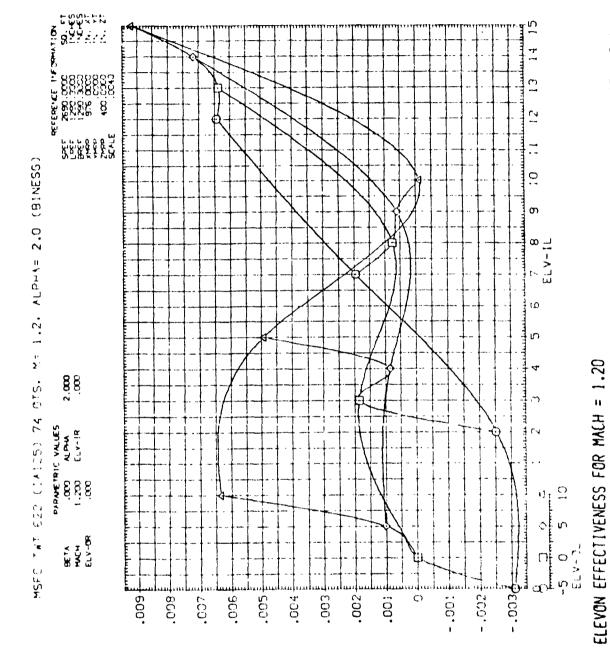
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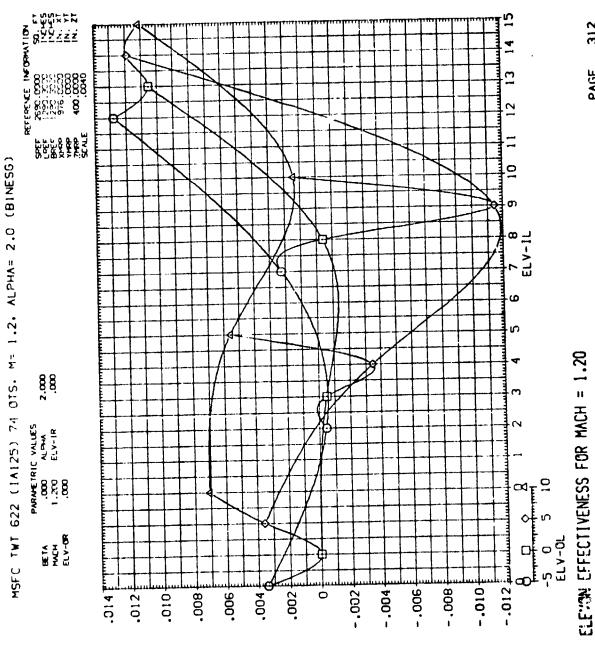


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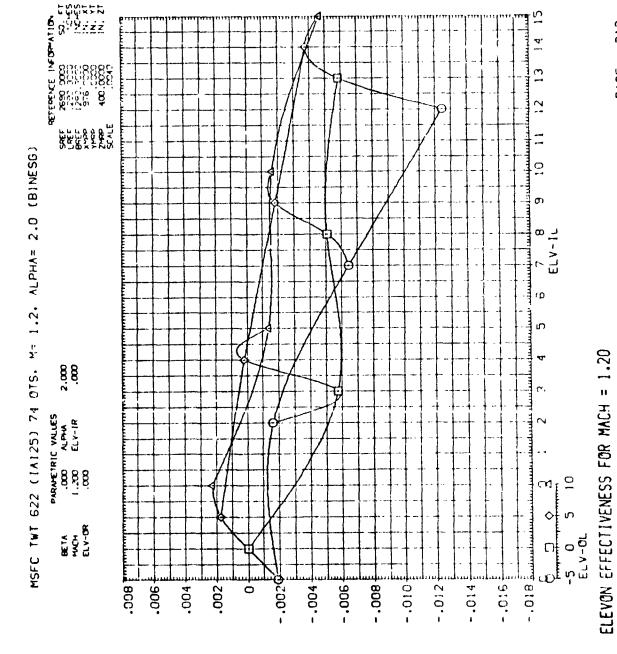


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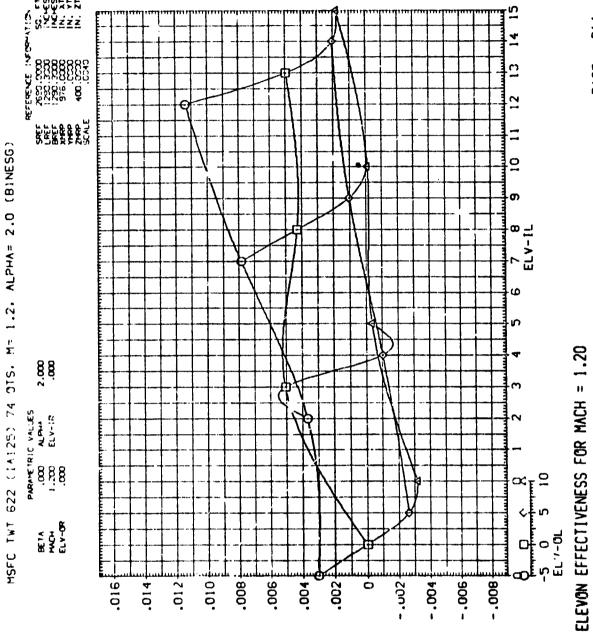
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INCREMENTAL FOREBOOY AXIAL FORCE COEFFICIENT, DCAF

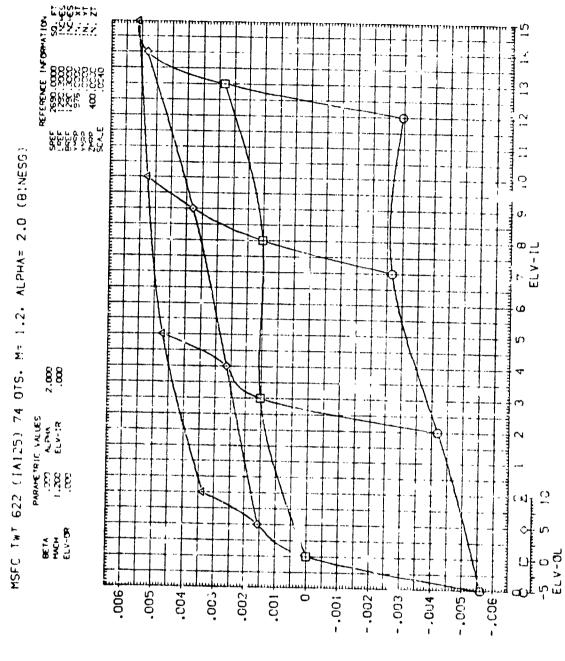


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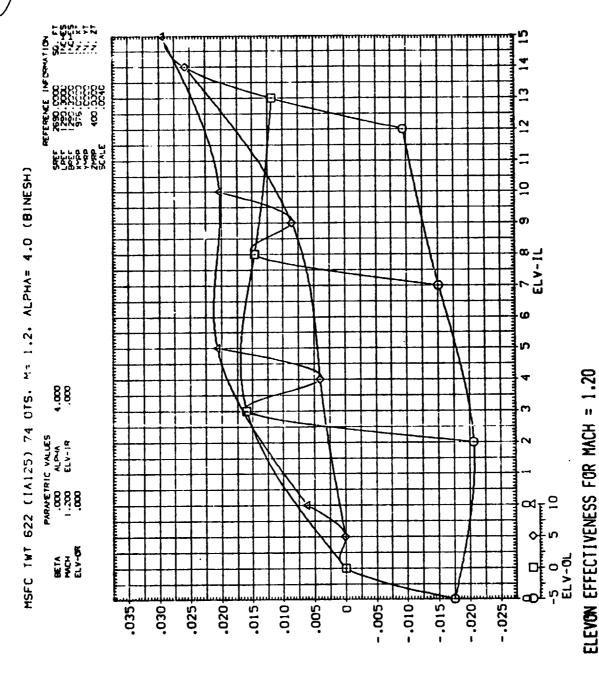


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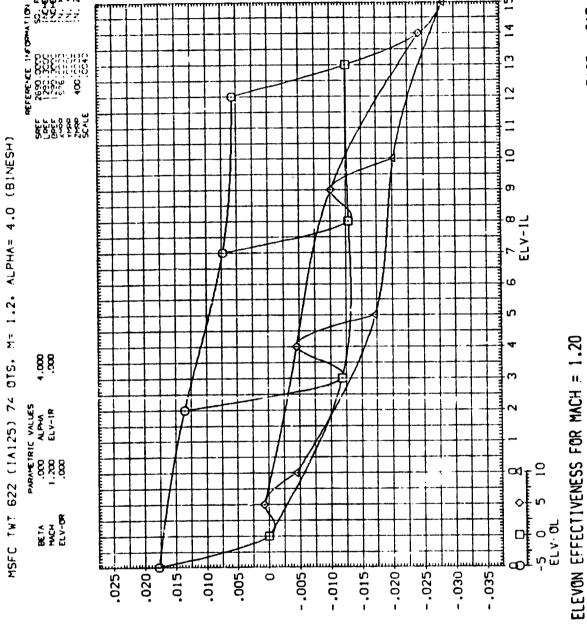




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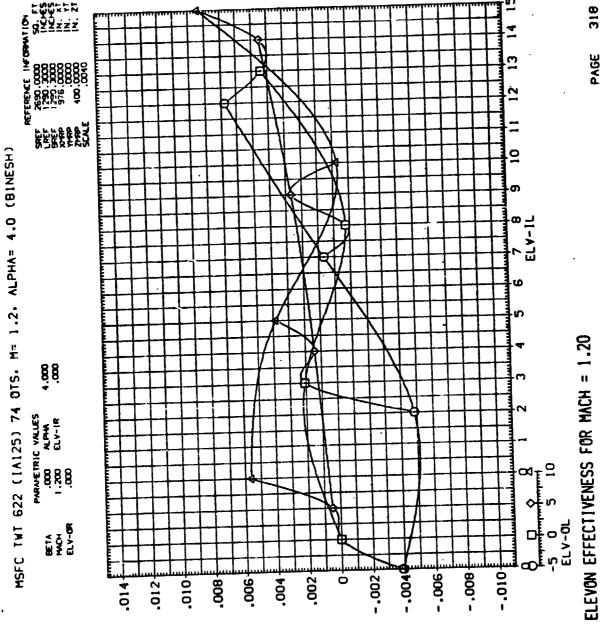


INCREMENTAL NORMAL FORCE COEFFICIENT DUE TO ELEYON DEFLECTION. DCN



INCREMENTAL PITCHING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION. DCLM

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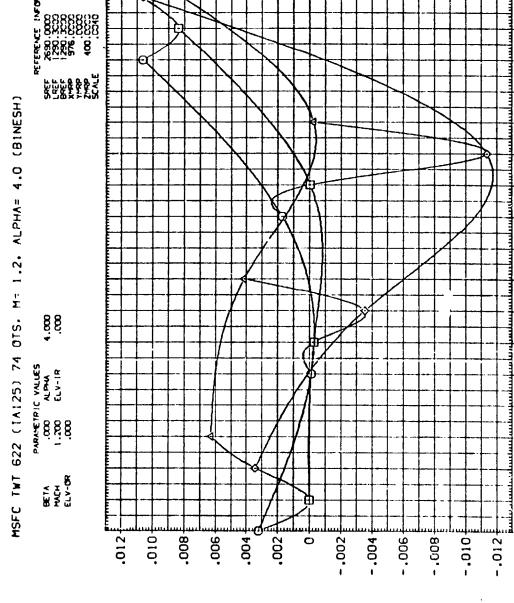


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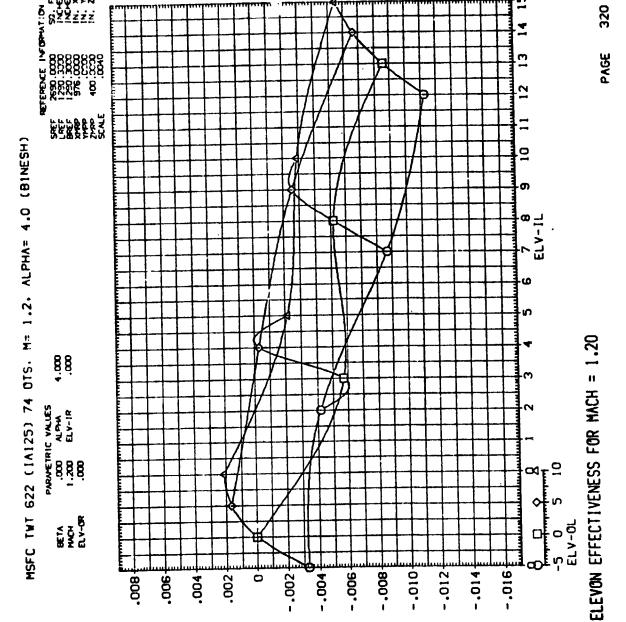
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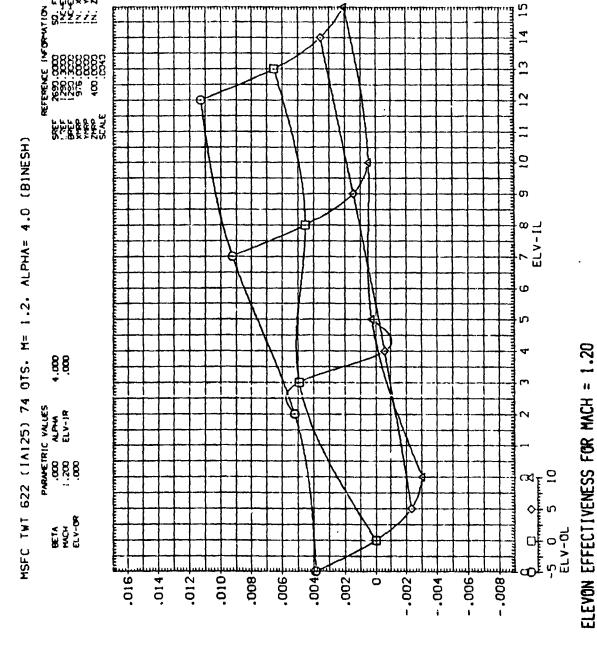
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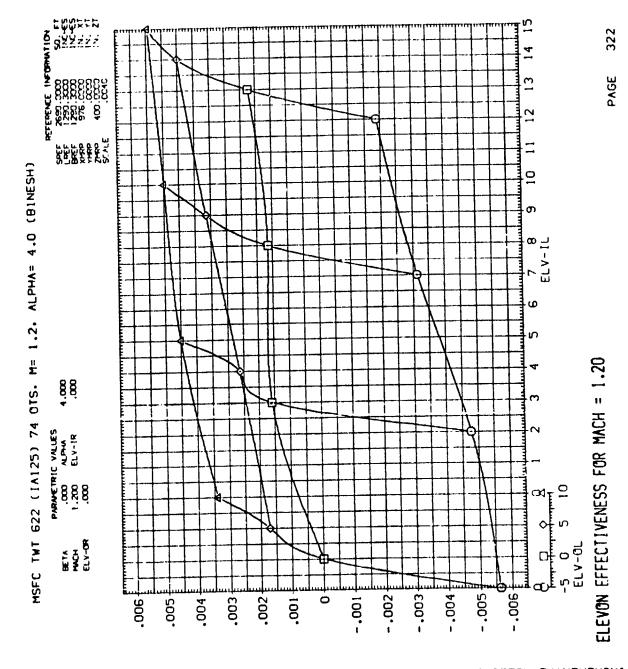
INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF



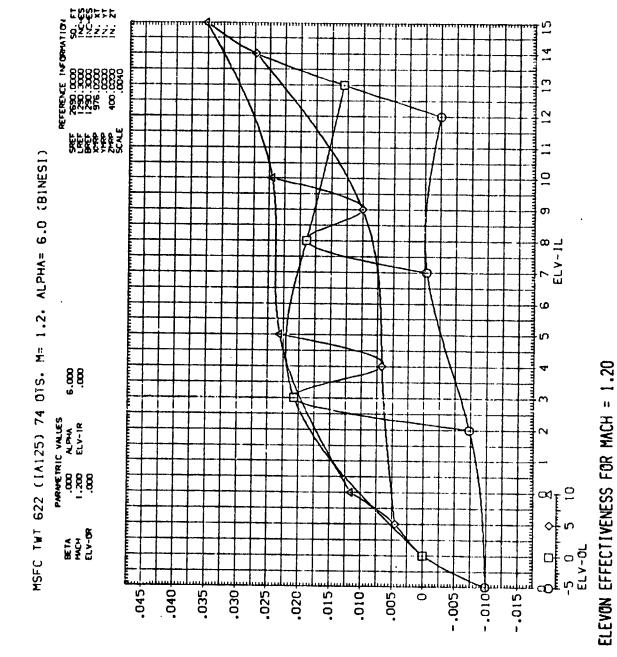
INCREMENTAL SIDE FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCY



INCREMENTAL YAWING MOMENT COEFFICIENT DUE TO ELEYON DEFLECTION, DCYN



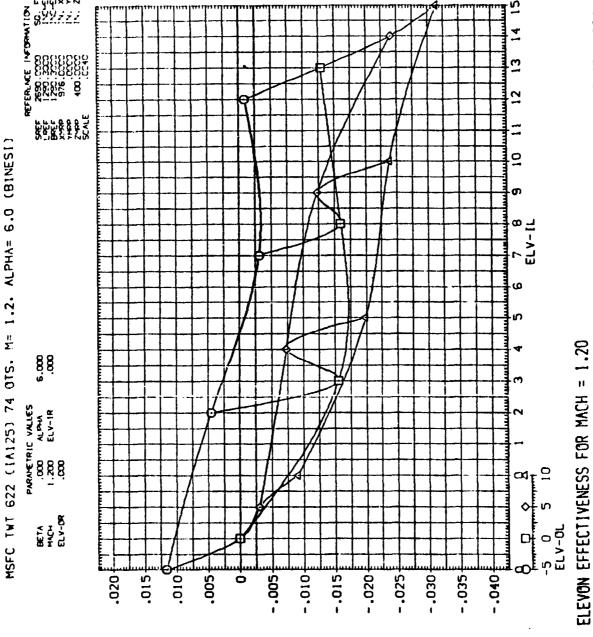
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INCREMENTAL MORNAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION, DCN

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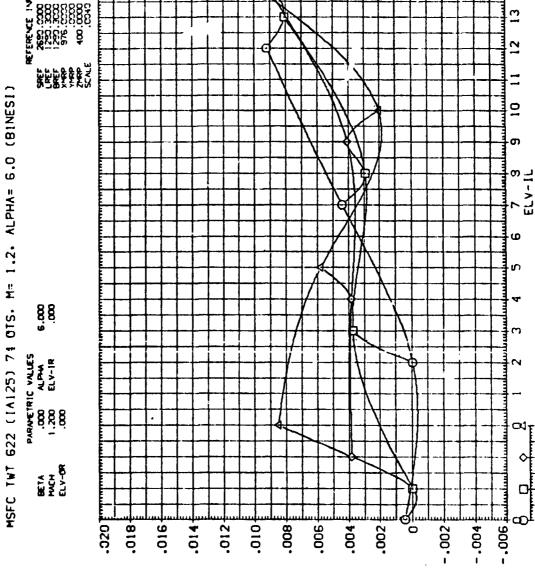
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INCREMENTAL PITCHING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION, OCLM

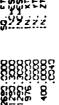
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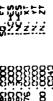


INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION, DCA





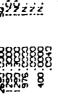




















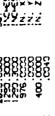




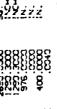


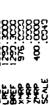


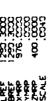








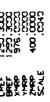




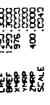






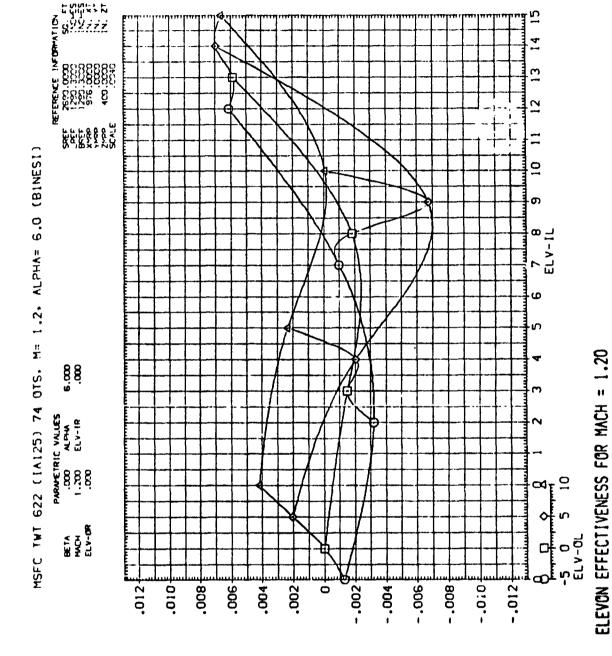








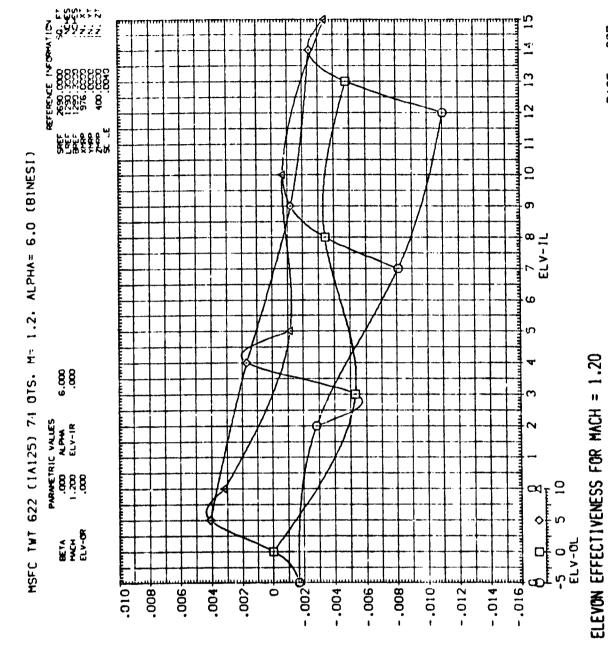




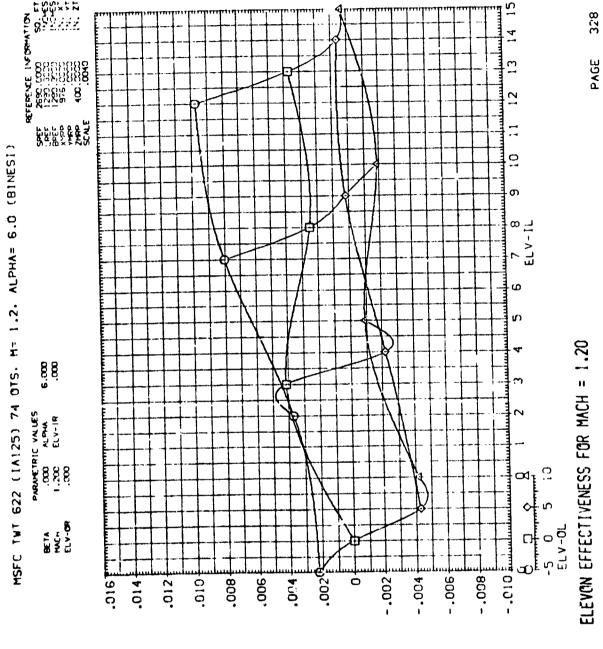
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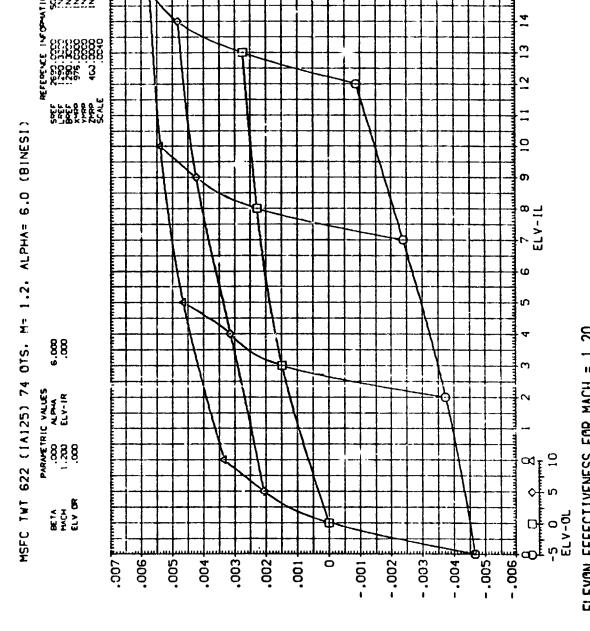
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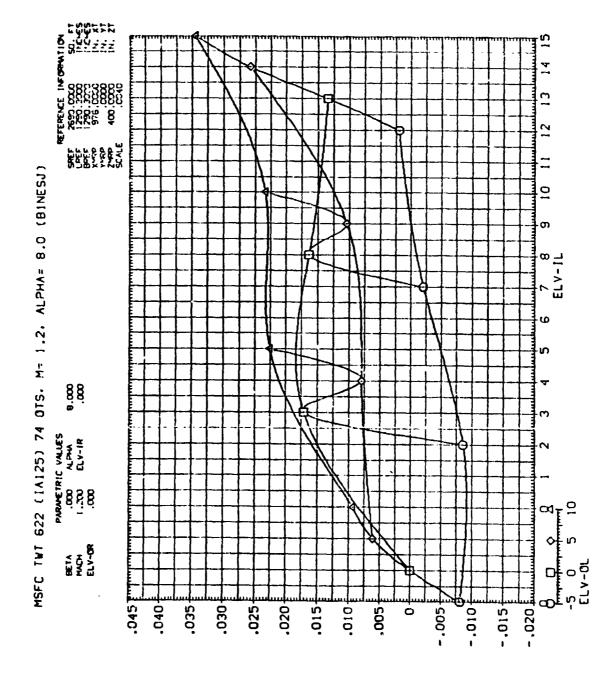
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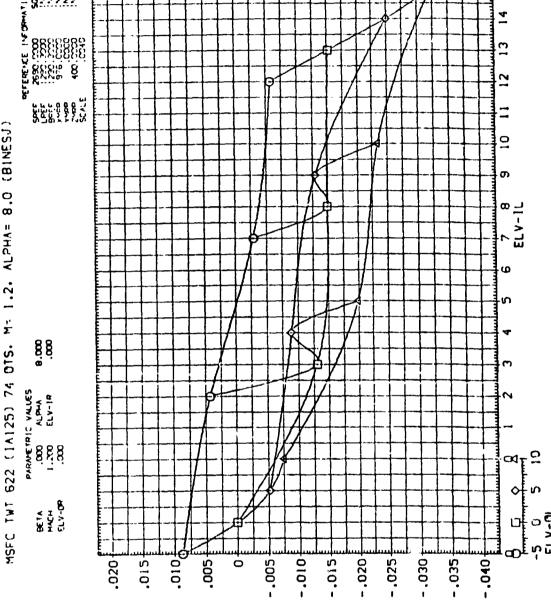
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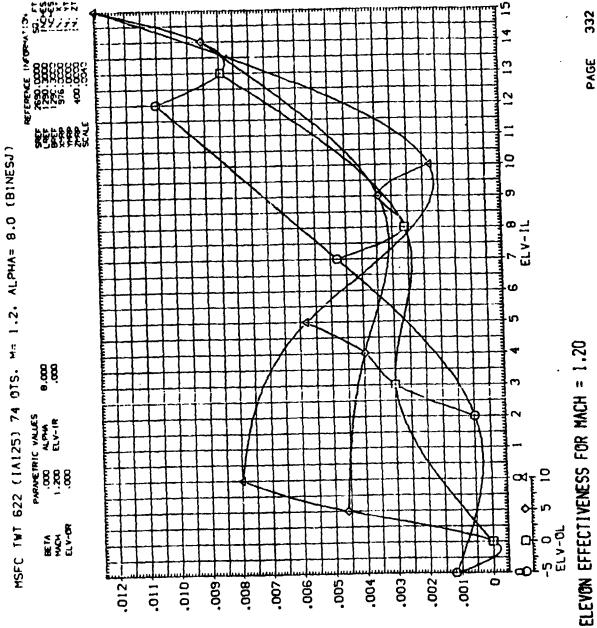


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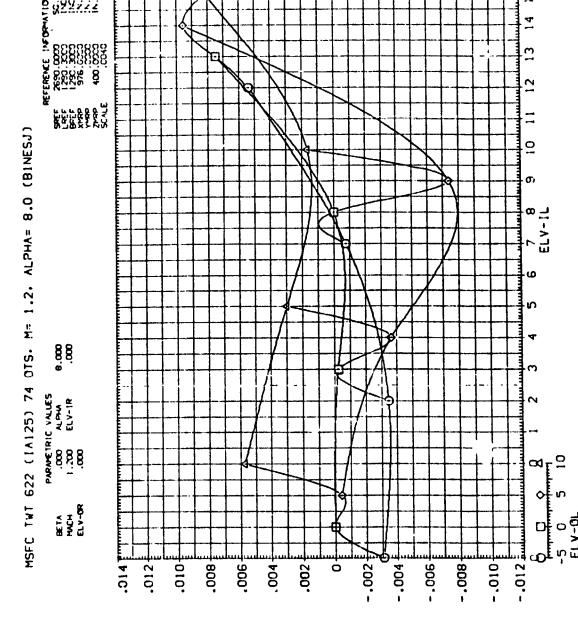
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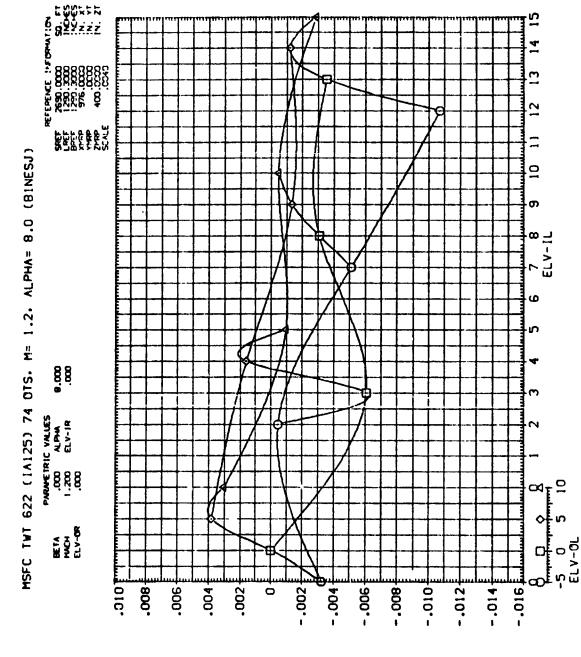
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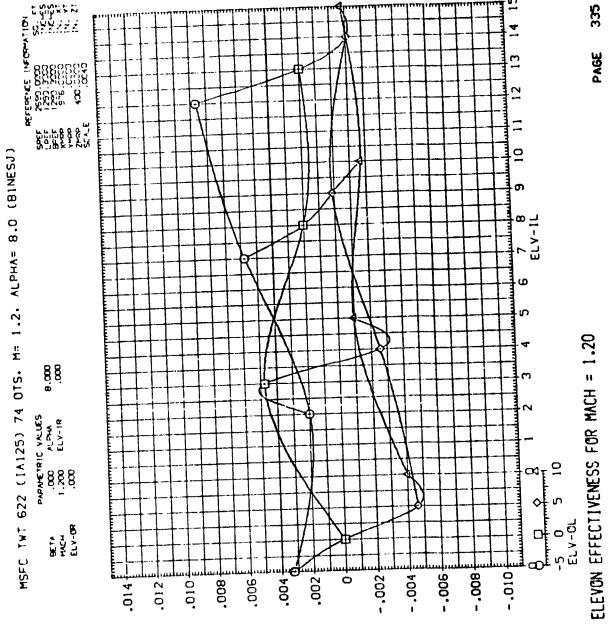


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ELEYON EFFECTIVENESS FOR MACH = 1.20

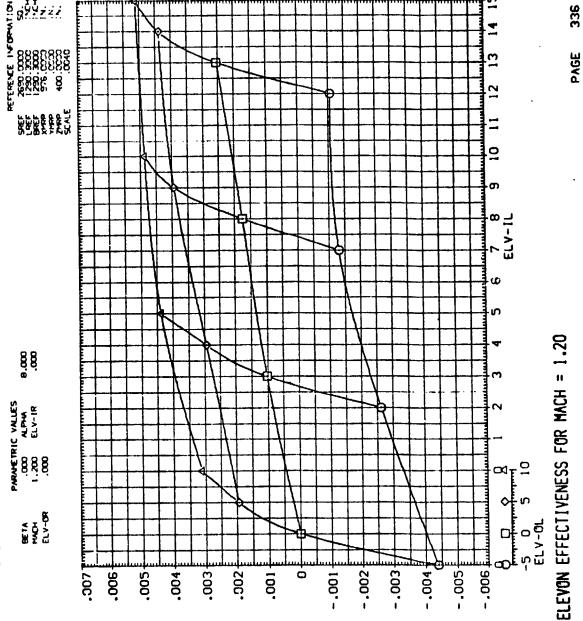


INCREMENTAL SIDE FORCE COEFFICIENT OUE TO ELEVON DEFLECTION. DCY



INCREMENTAL YANING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION, DCYN

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INCREMENTAL ROLLING MOMENT COEFFICIENT DUE TO ELEVON DELLECTION. DCBL

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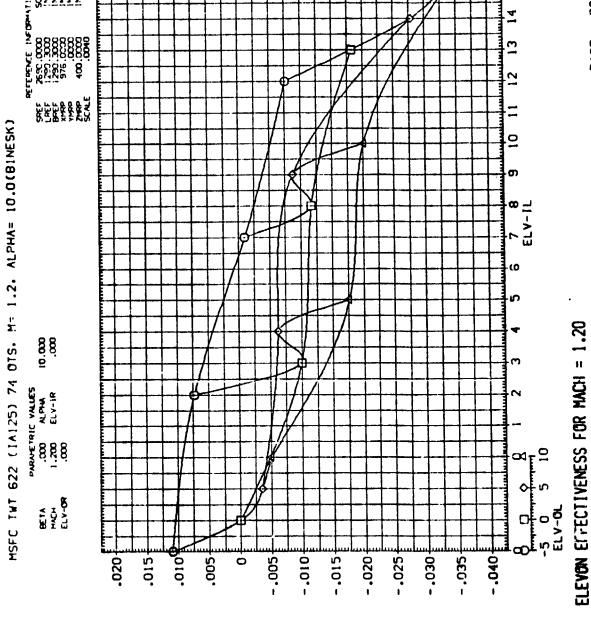
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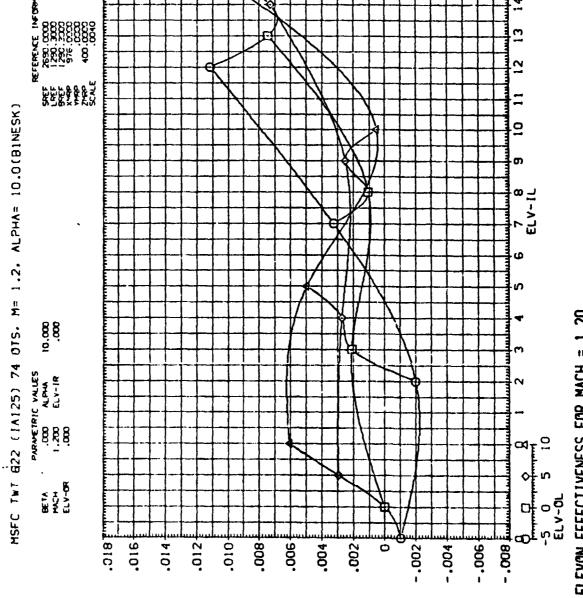
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INCREMENTAL PITCHING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION. DCLM

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ELEVON EFFECTIVENESS FOR MACH = 1.20



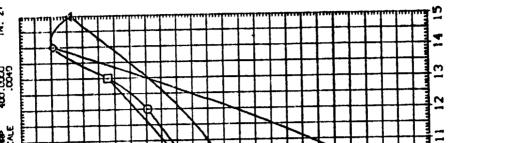
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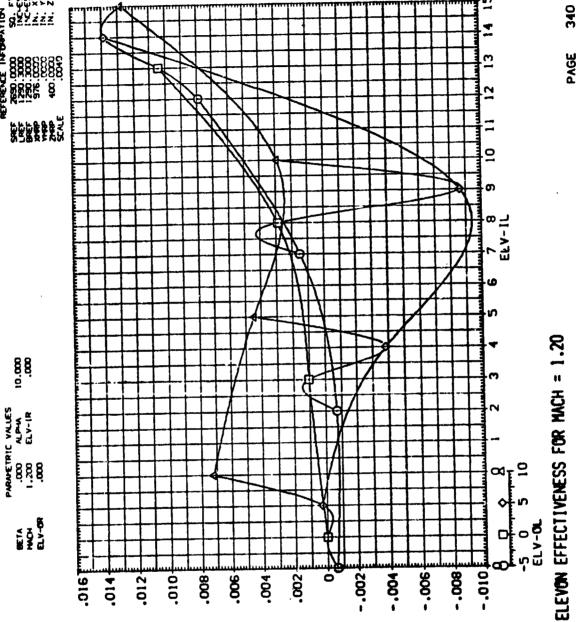
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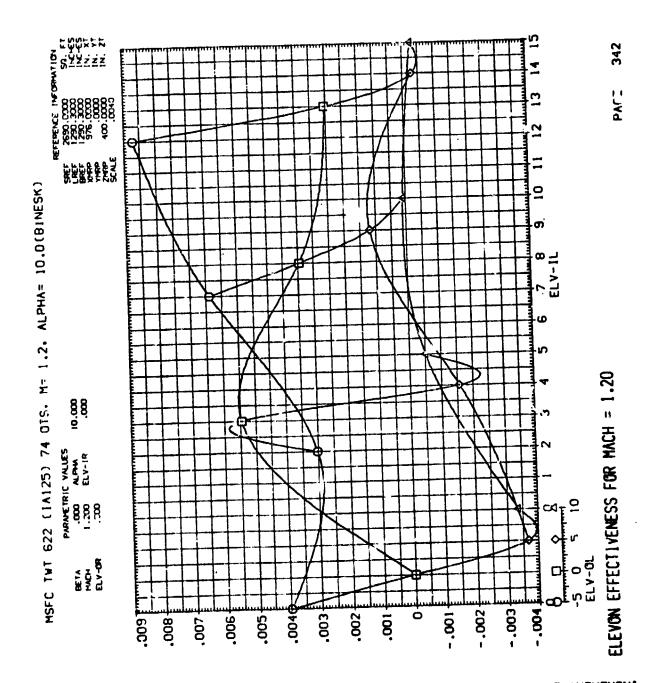
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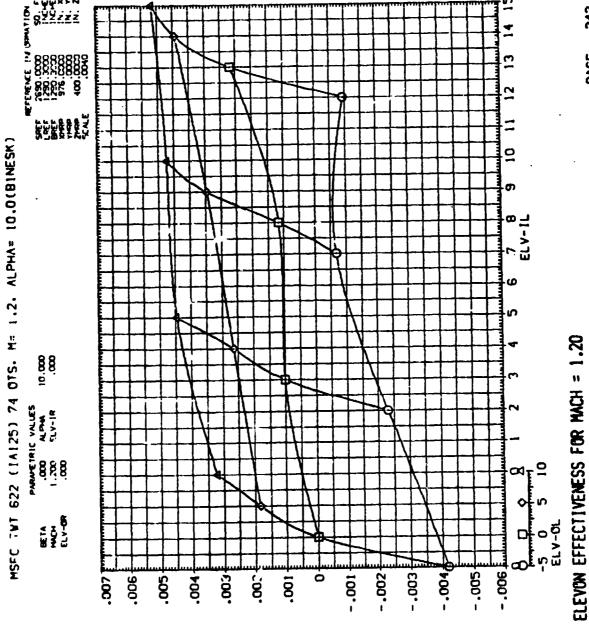
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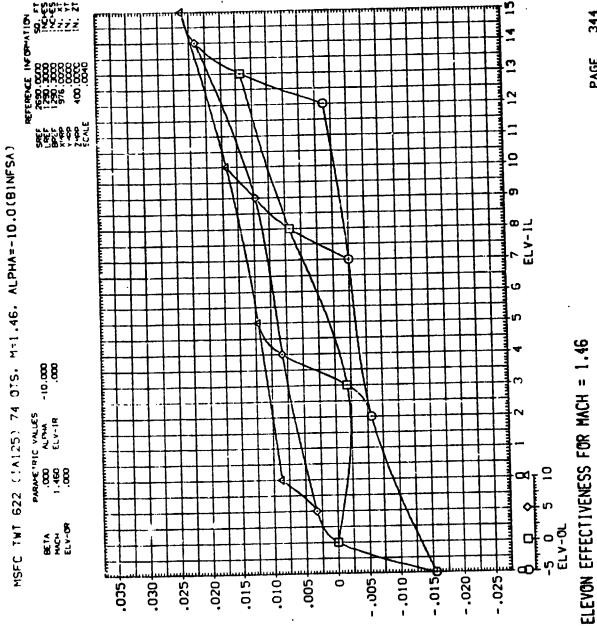
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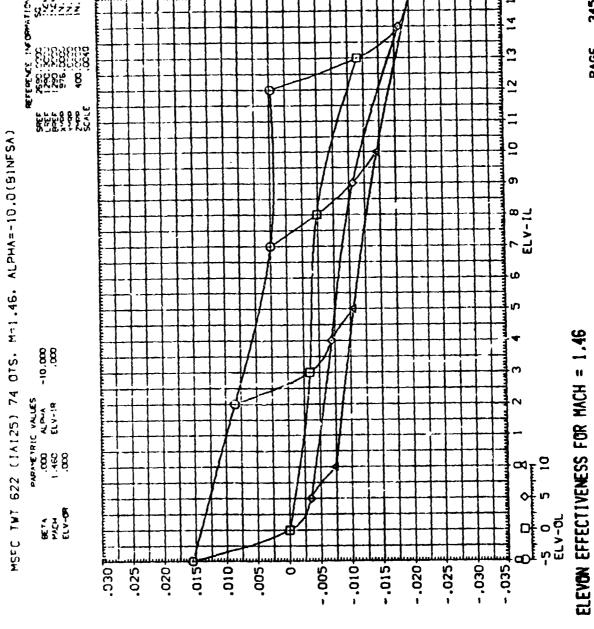
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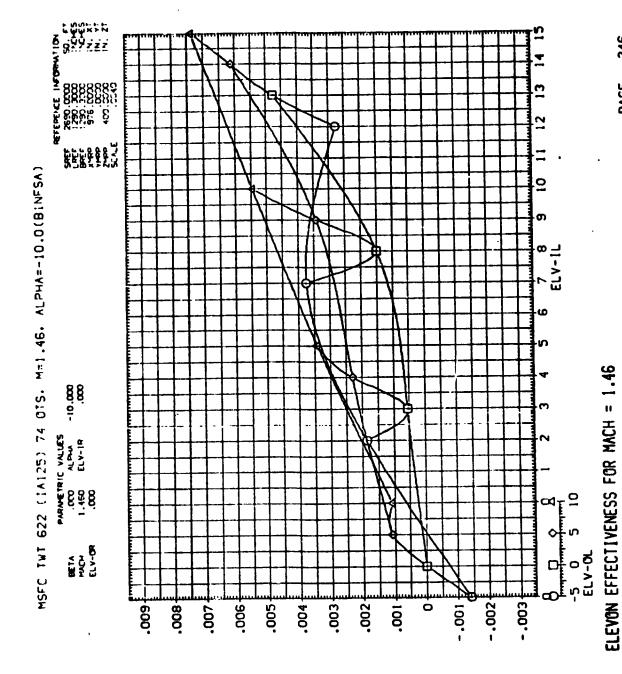
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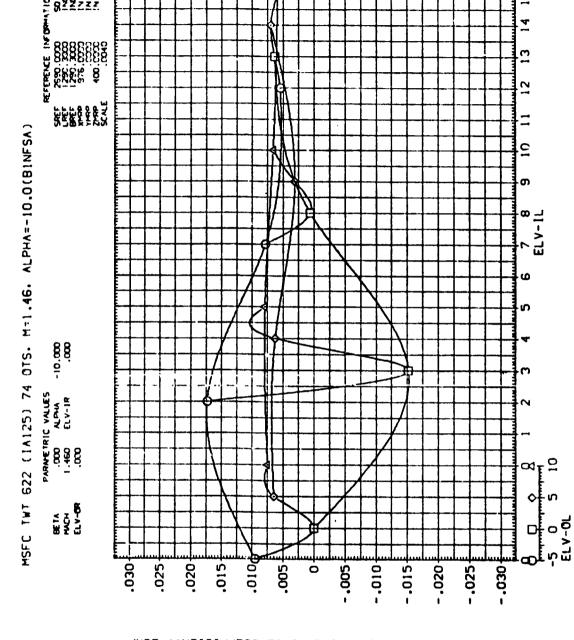
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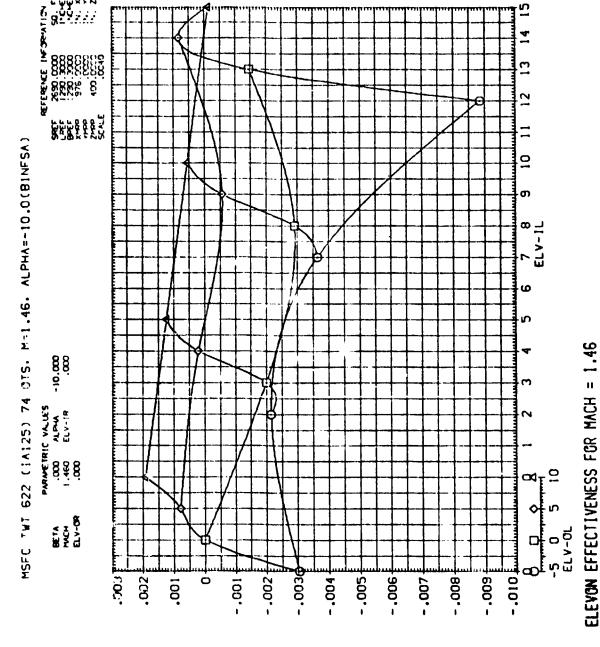
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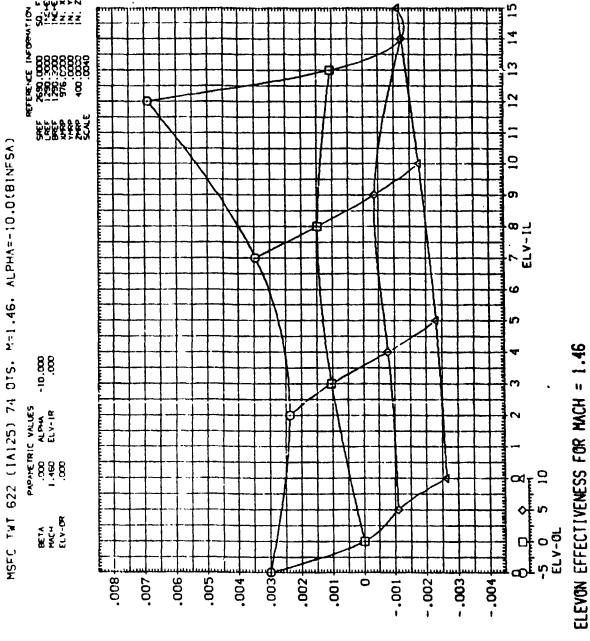
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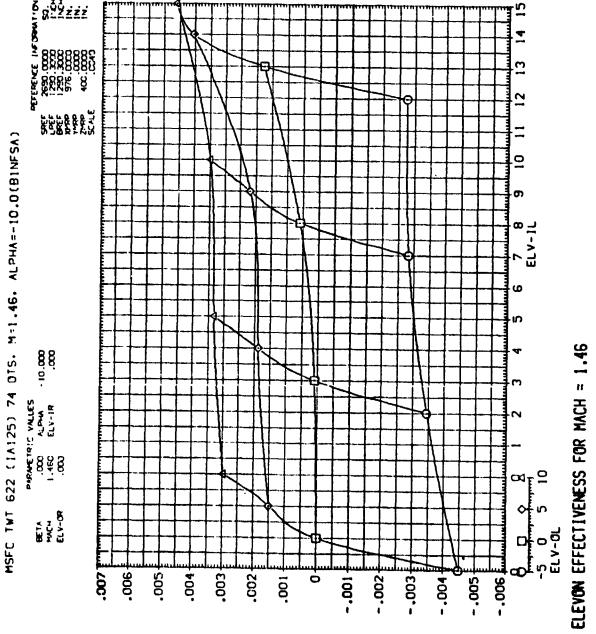


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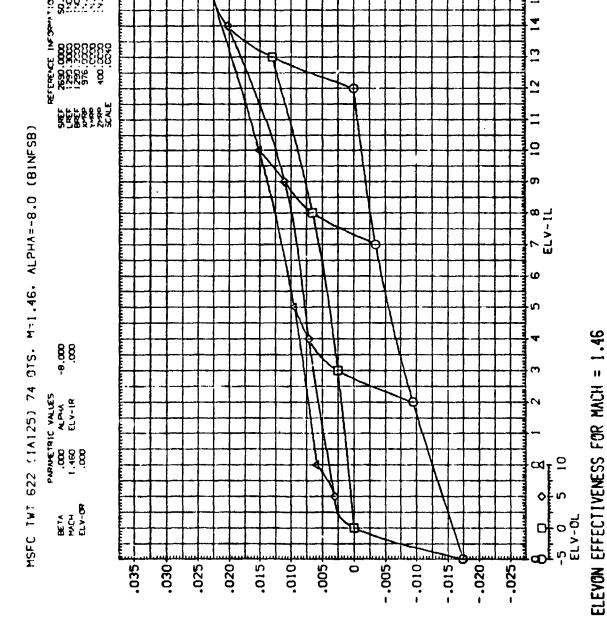


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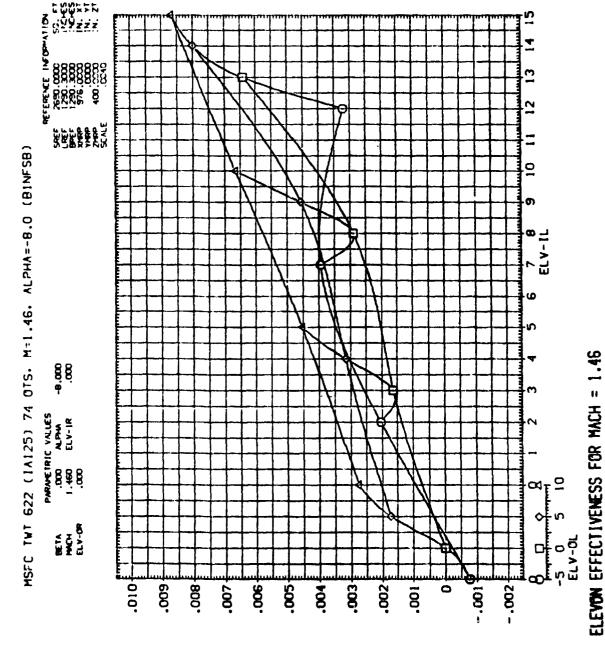
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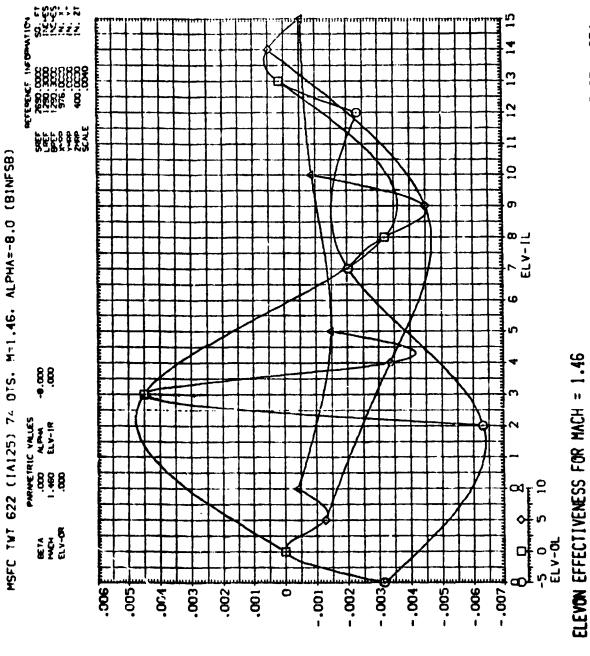
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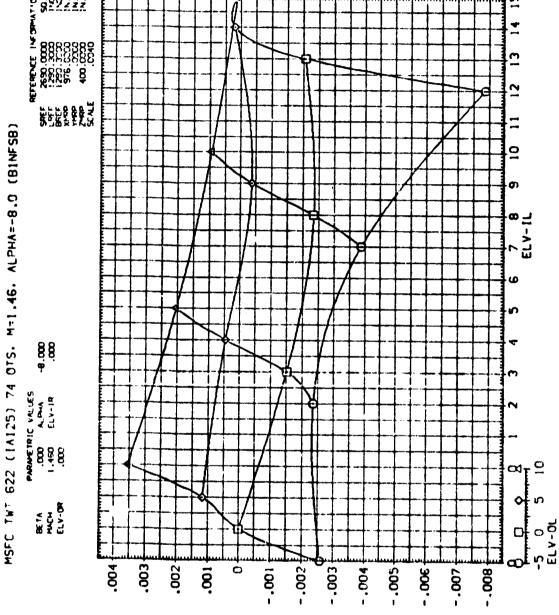
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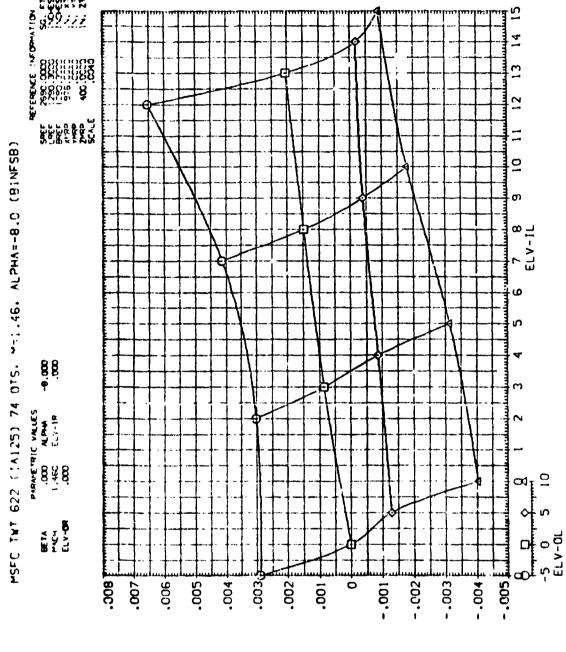


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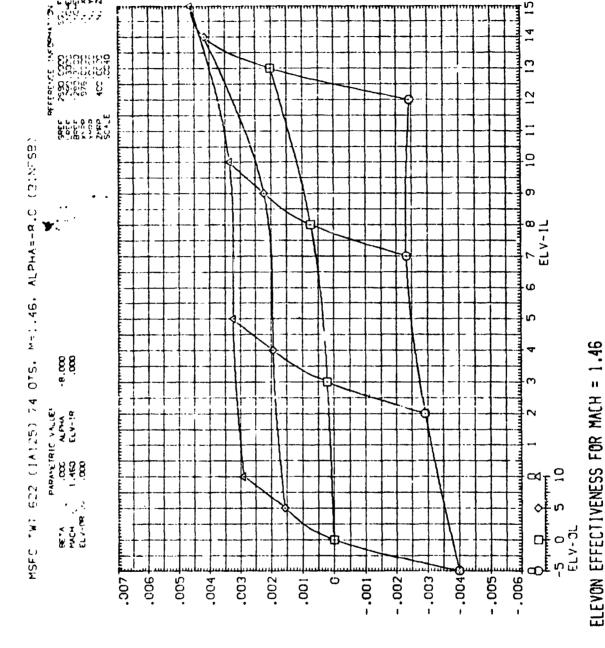
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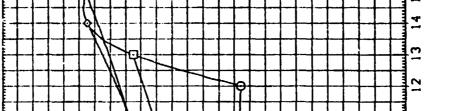
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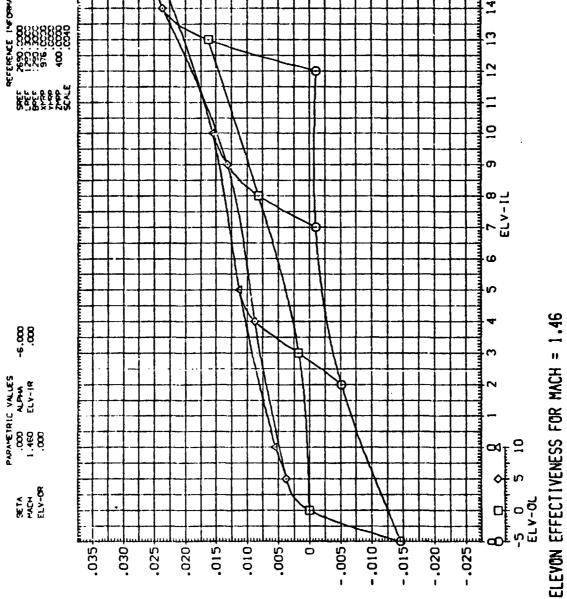
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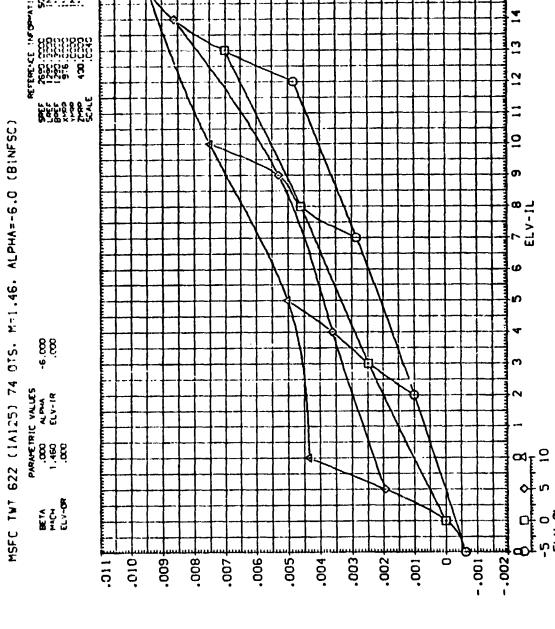
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MSFC TWT 622 (1A125) 74 0TS. M=1.46. ALPHA=-6.0 (BINFSC)

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INCREMENTAL PITCHING MOMENT COEFFICIENT DUE TO ELEYON DEFLECTION. OCLM

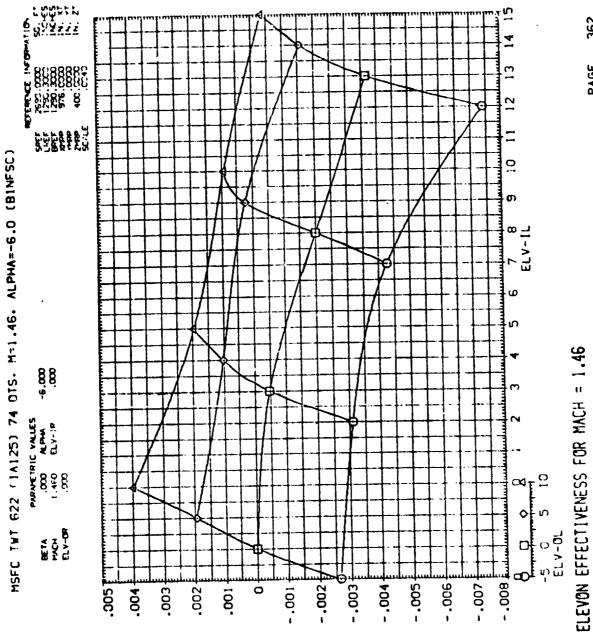


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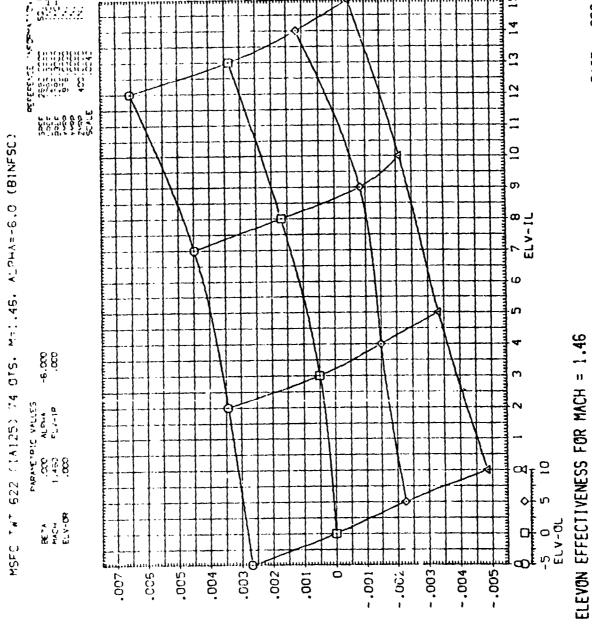
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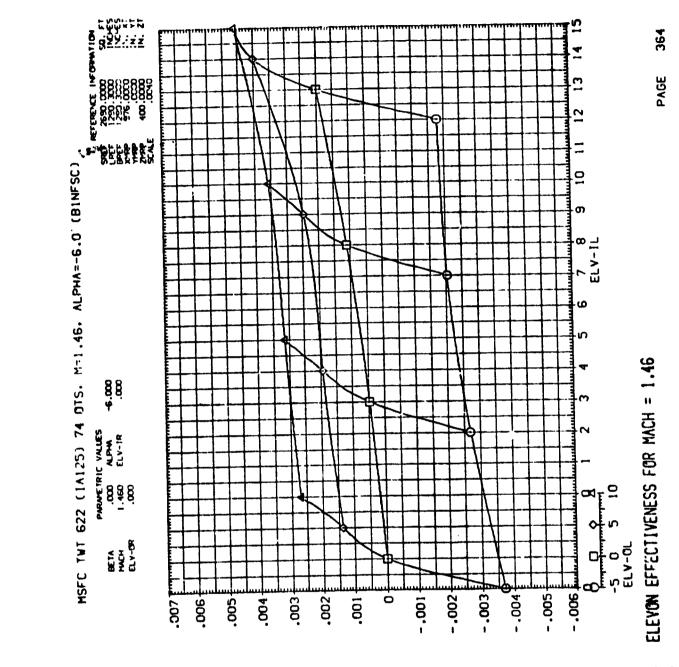


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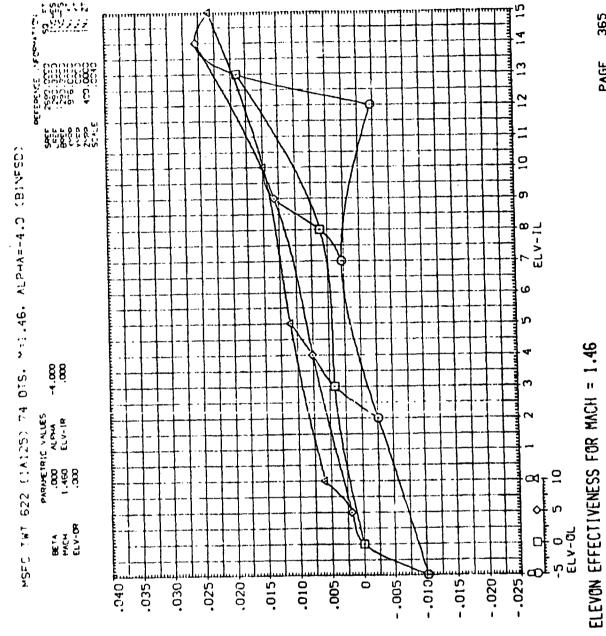


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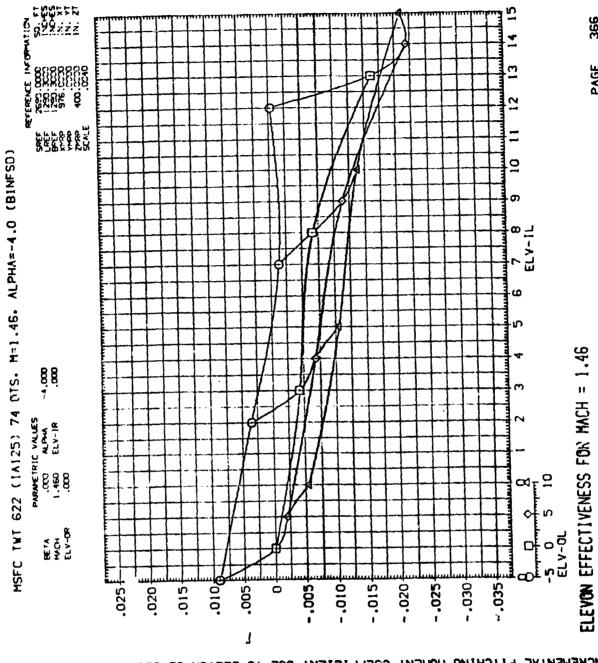
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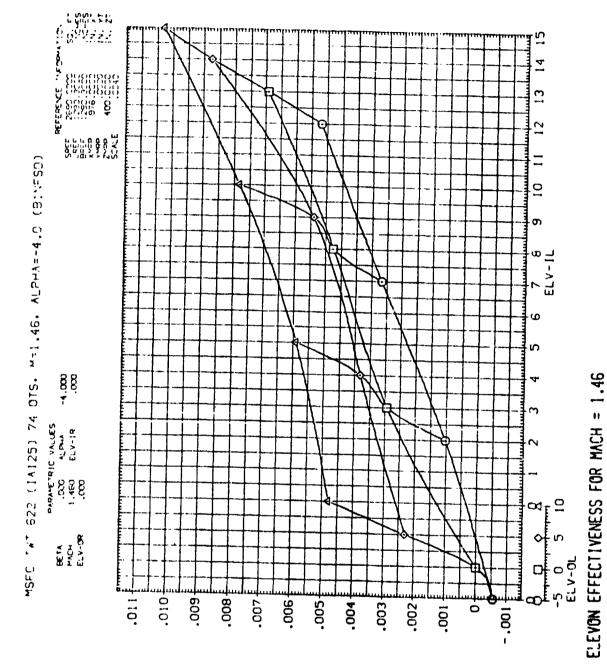
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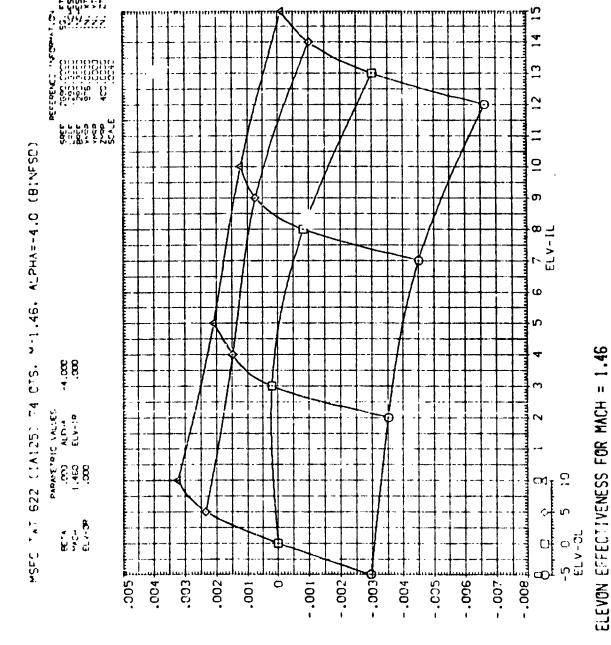
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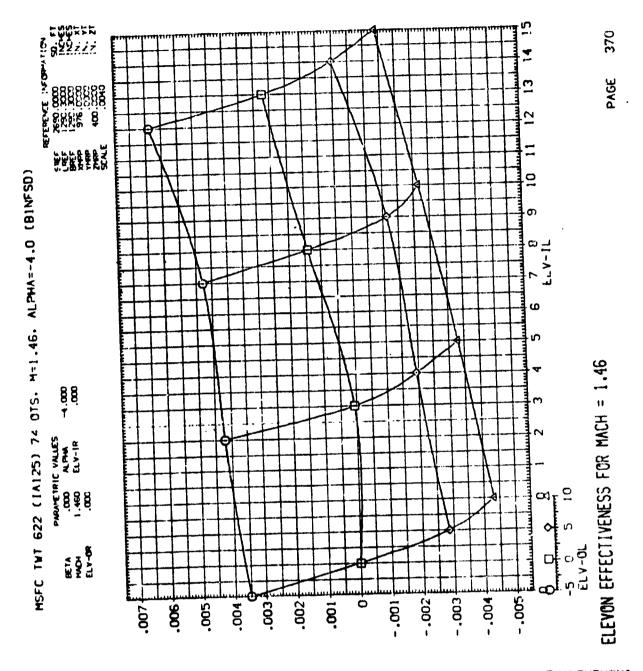


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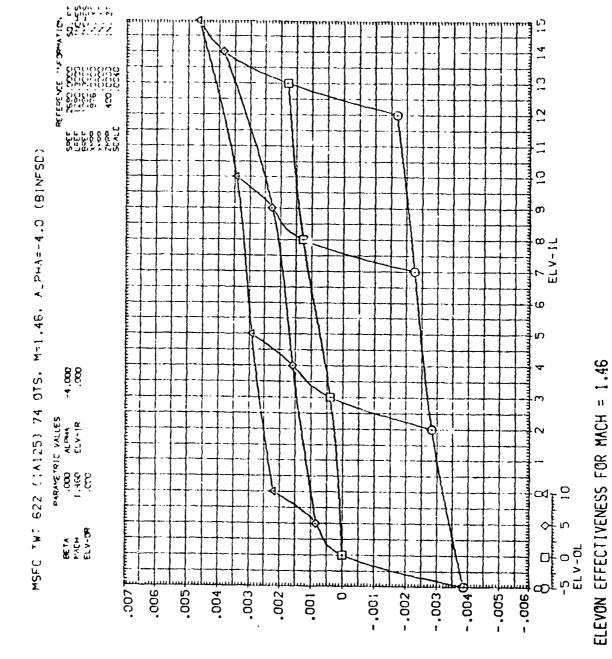
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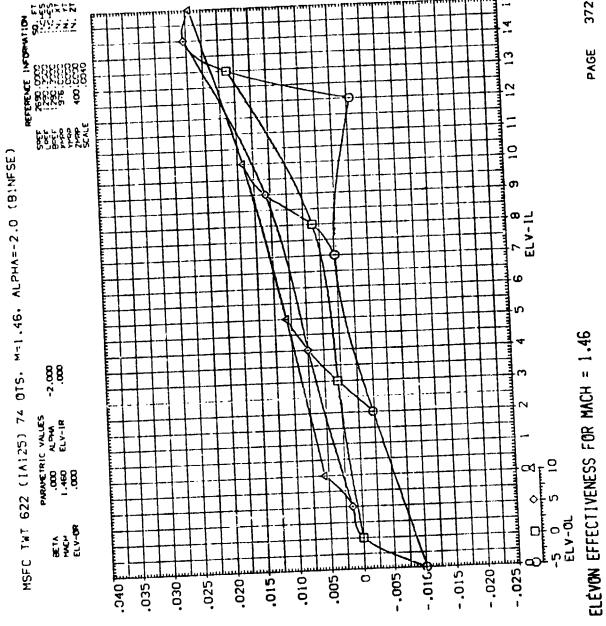
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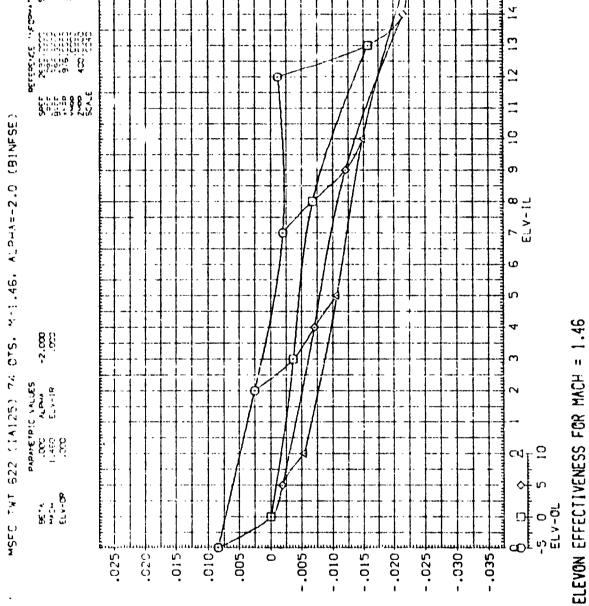


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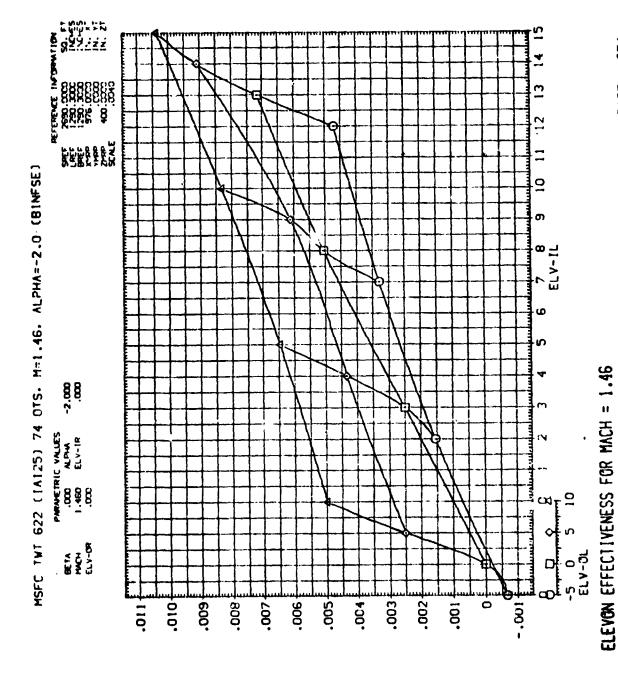
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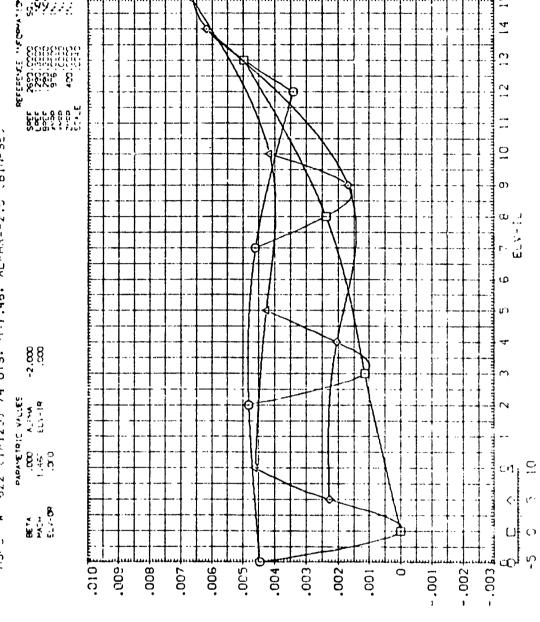


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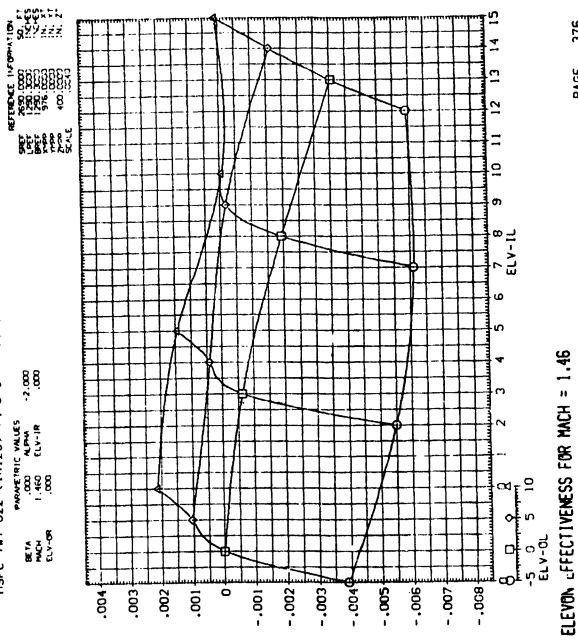
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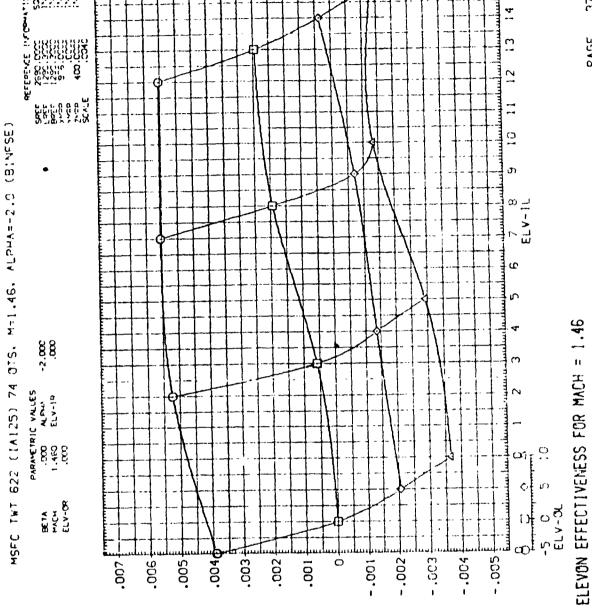
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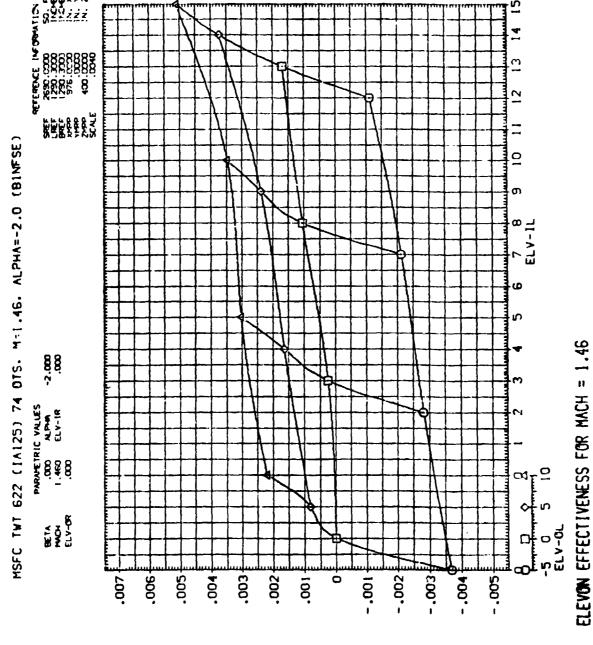
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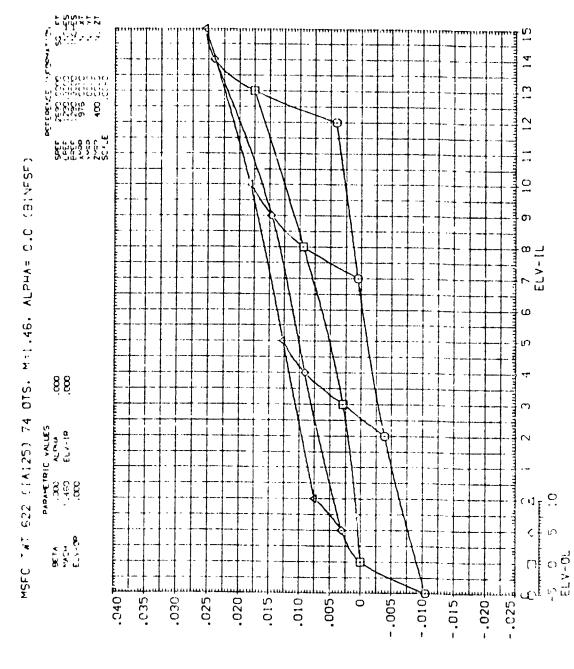
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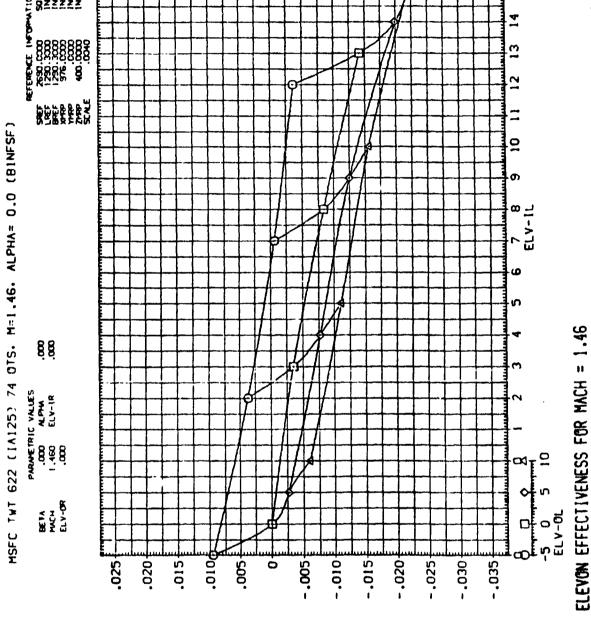


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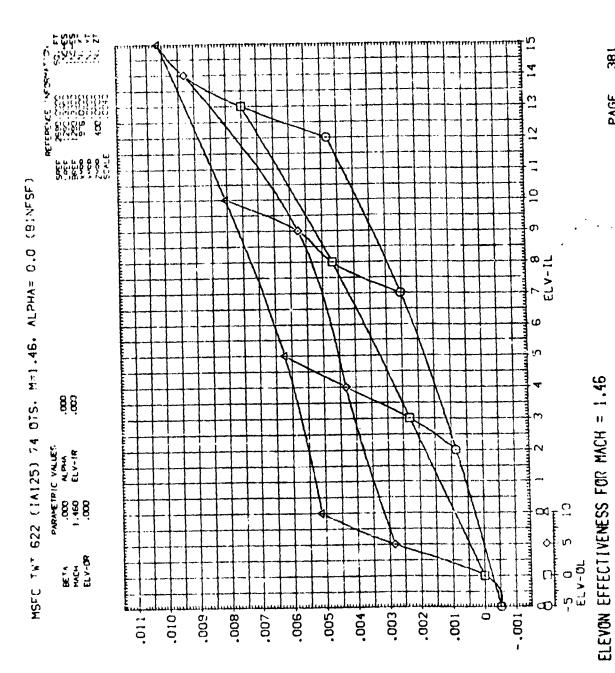
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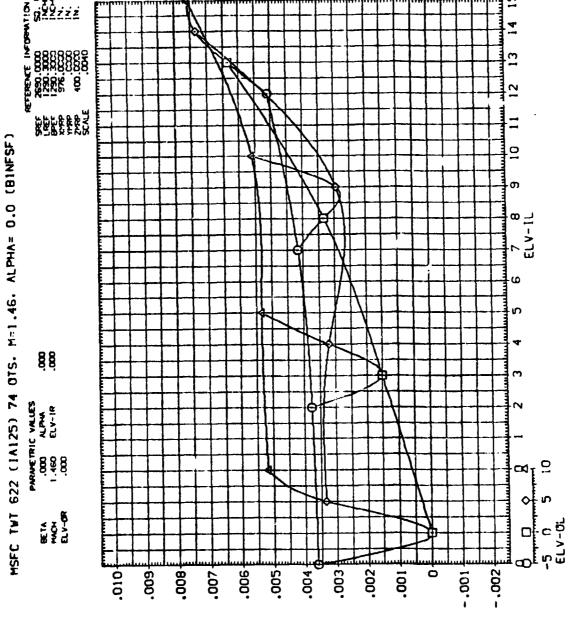


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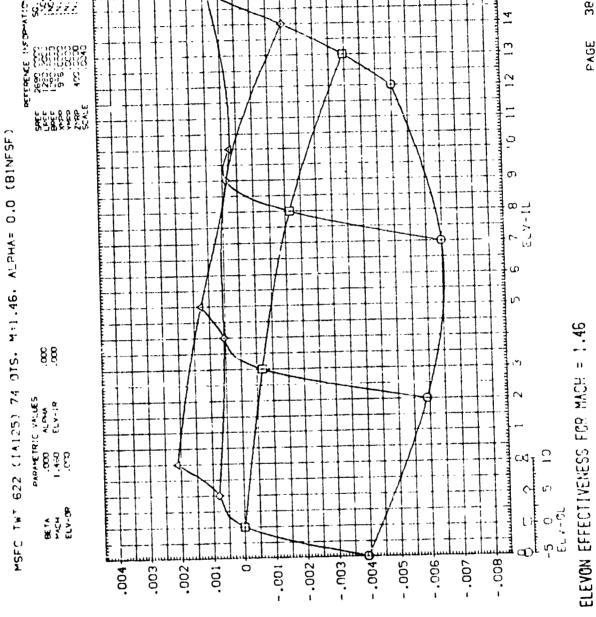
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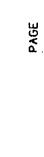
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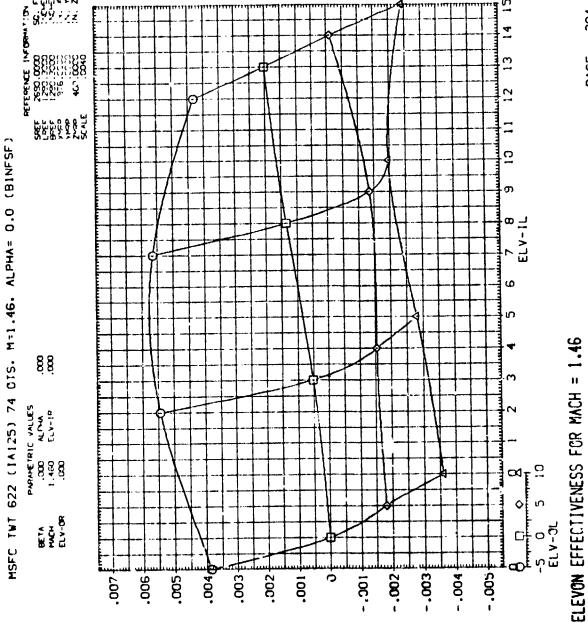
ELEVON EFFECTIVENESS FOR MACH = 1.46

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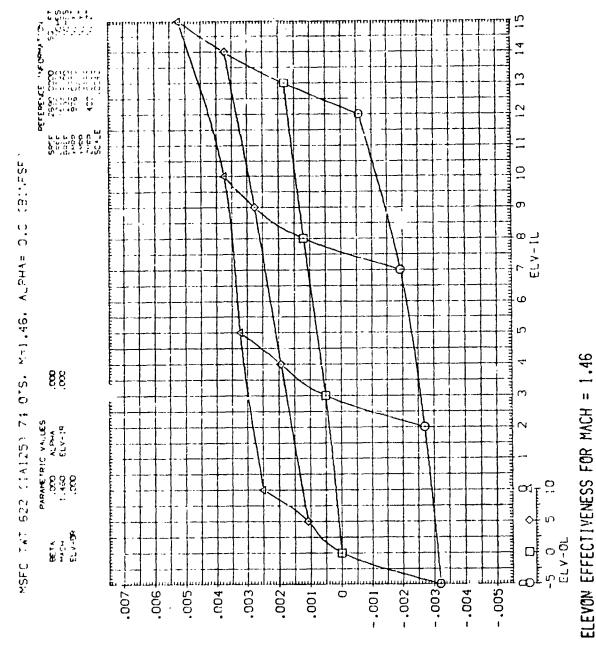


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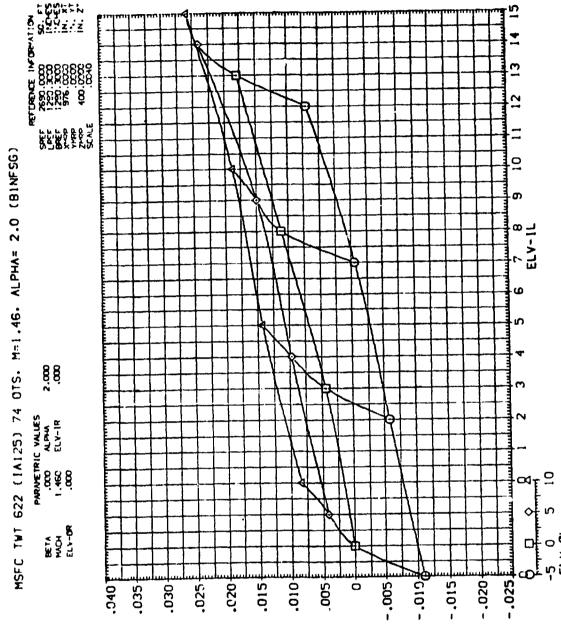
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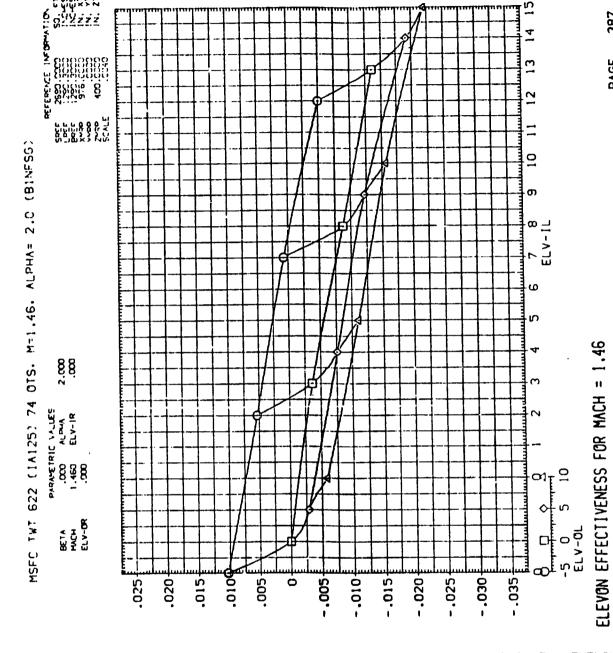
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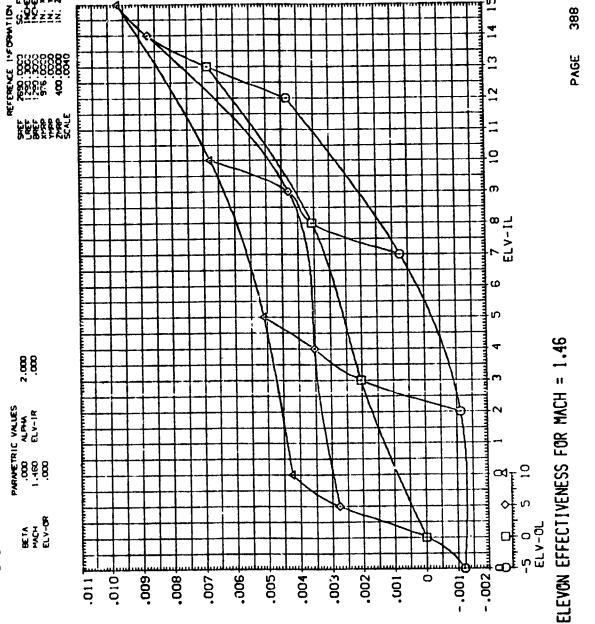


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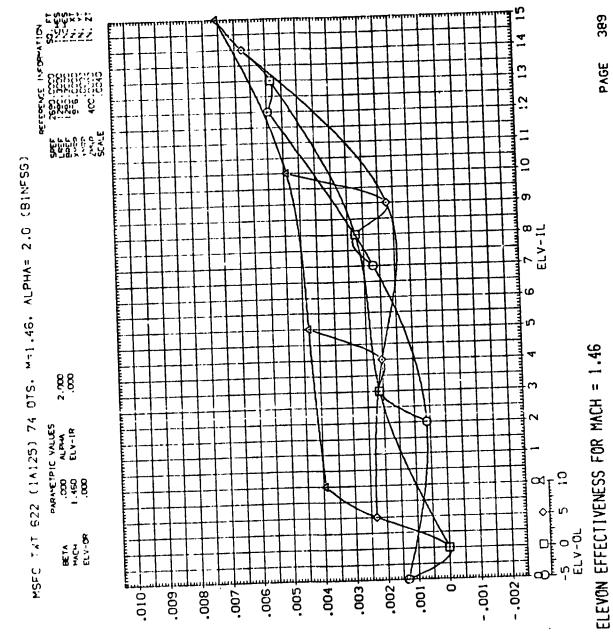
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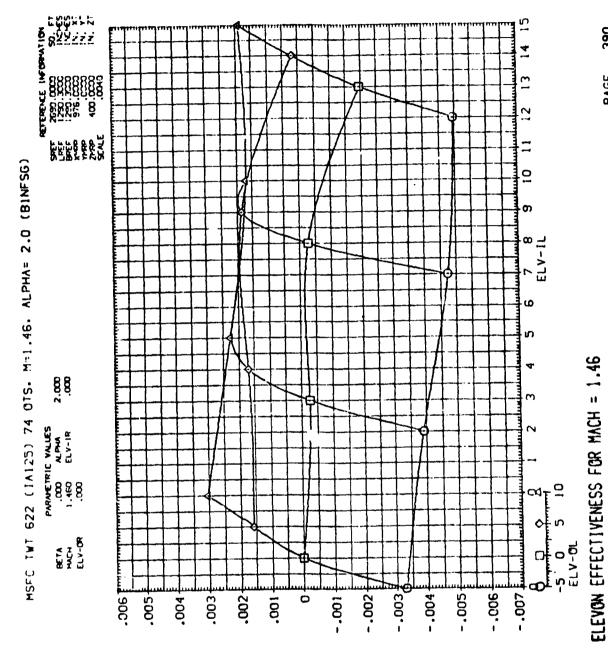
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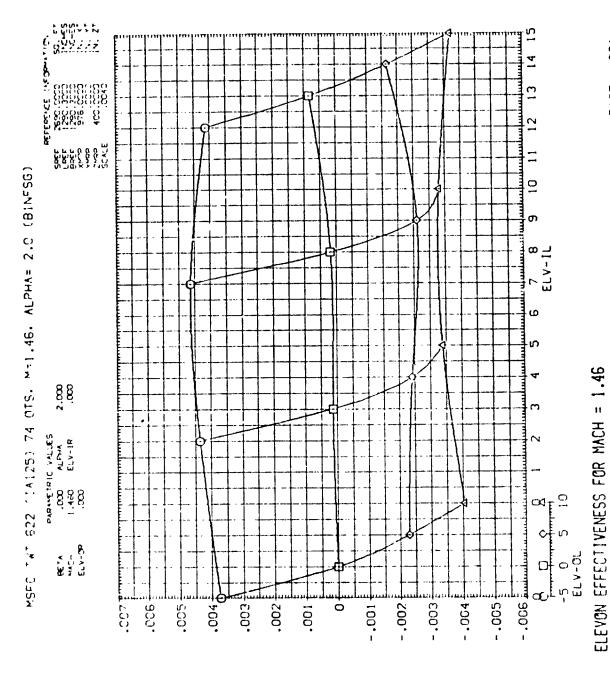


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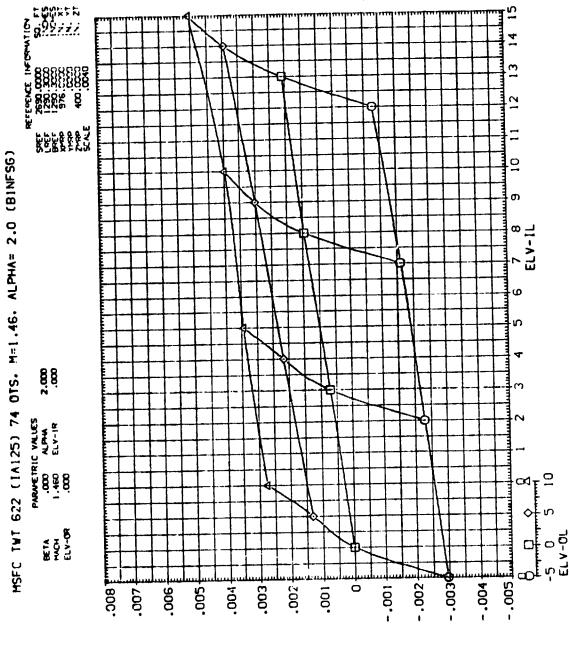


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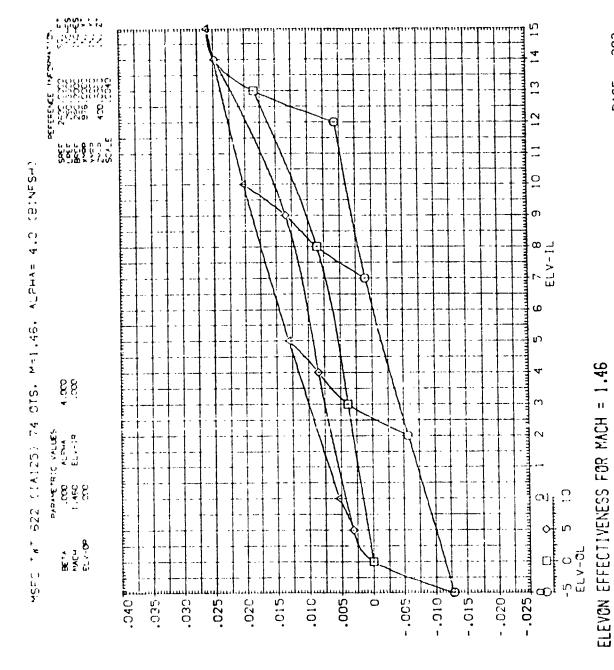


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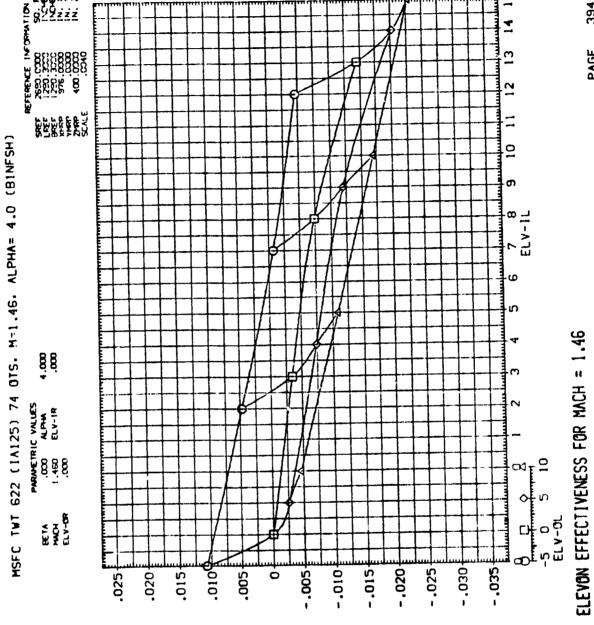
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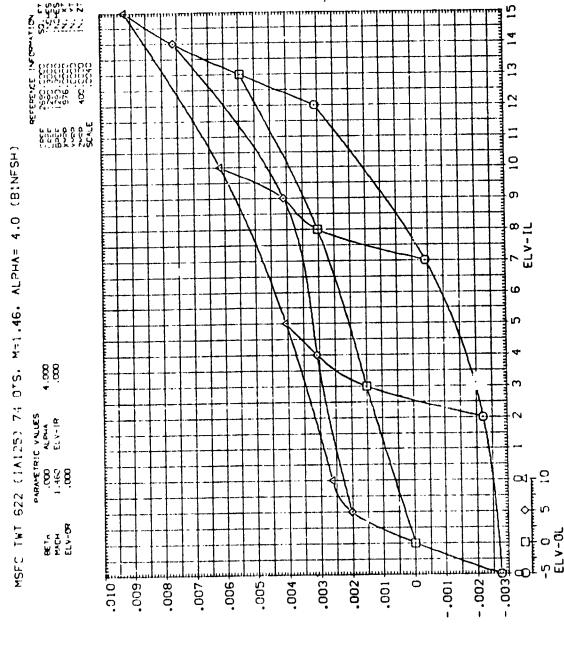
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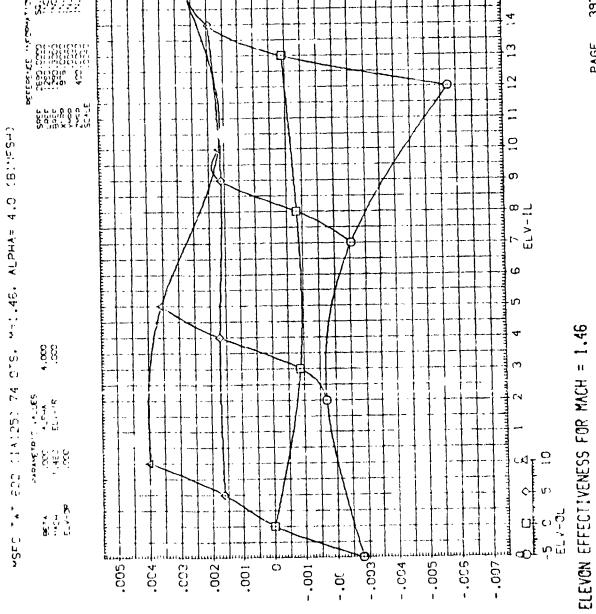


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396 2690.0000 12500.0000 12500.0000 12500.0000 976.0000 400.0000 6.0000 SCALE SCALE HSFC TWT 622 (1A125) 74 OTS. M=1.46. ALPHA= 4.0 (BINFSH) 9 9 ELEVON EFFECTIVENESS FOR MACH = 1.46 <u>.</u> 8 8 PARAMETRIC VALUES .000 ALPHA 1.460 ELV-IR .000 OF ? -5 0 -1 -5 0 BETA HACH ELV-OR 101C -.003 -.002 .003 .002 -004 .00 -900 .005 -.00 600 .008 .007

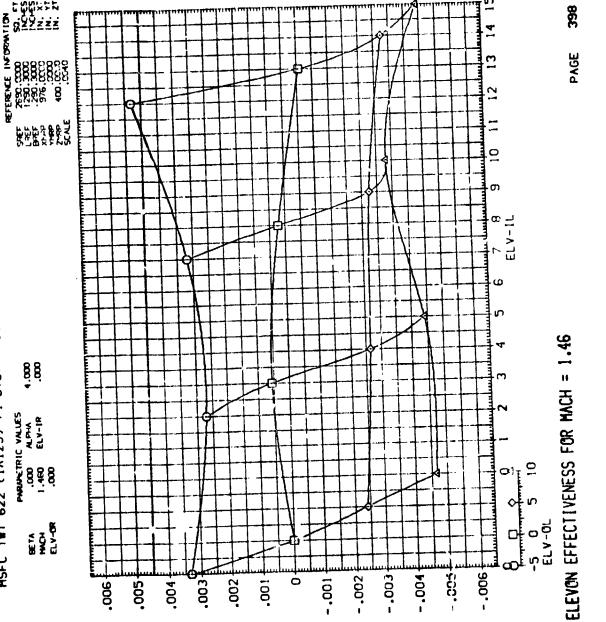
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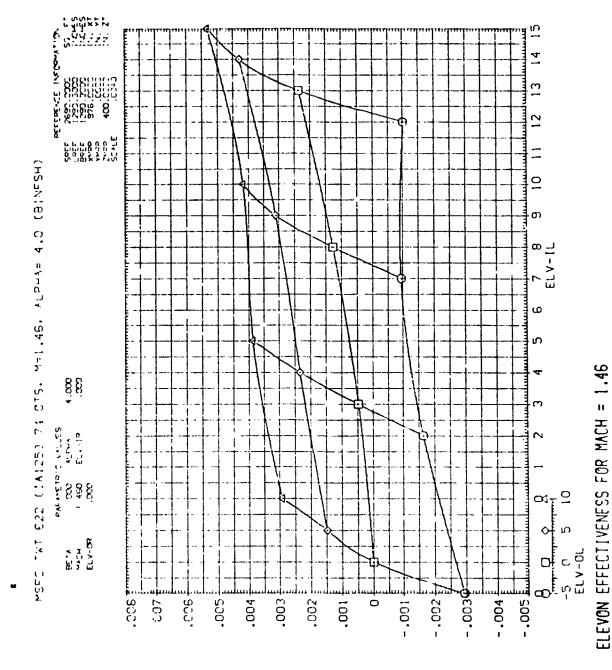
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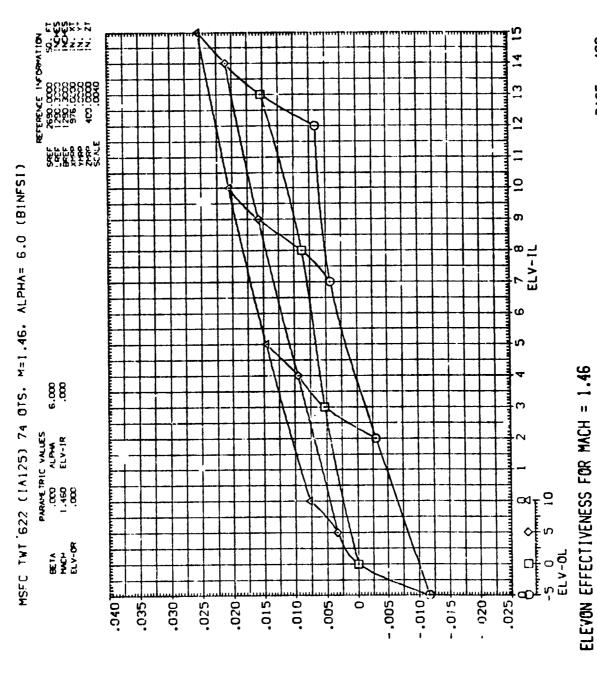
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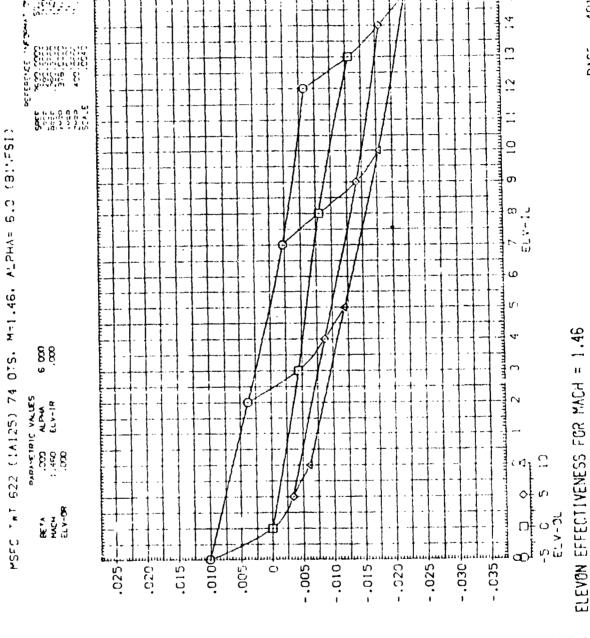
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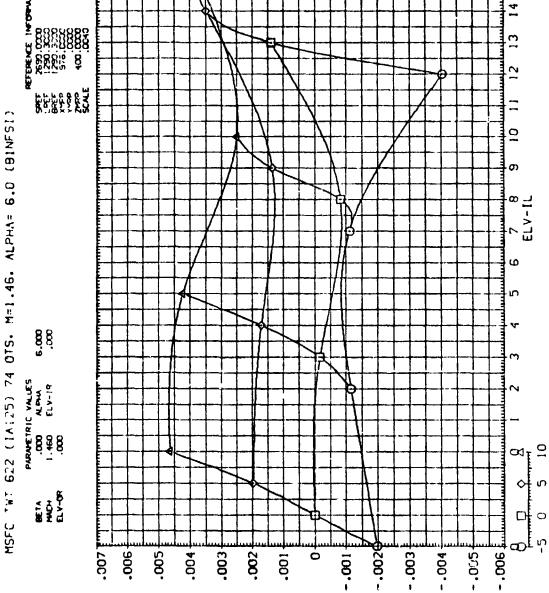


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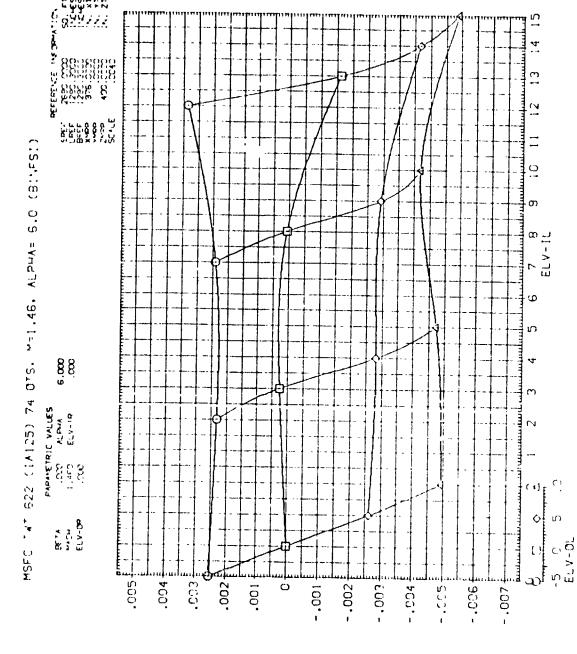
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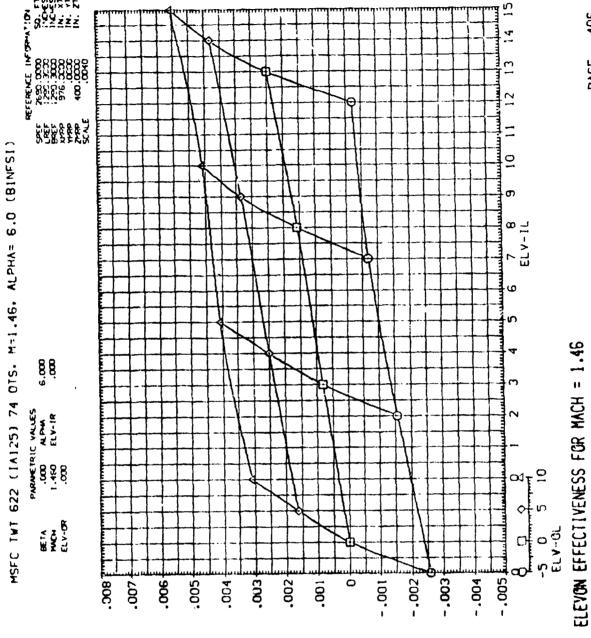


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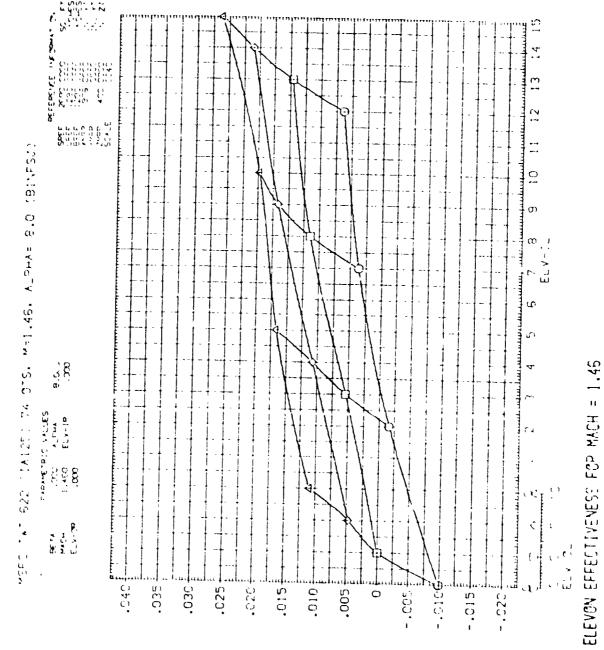


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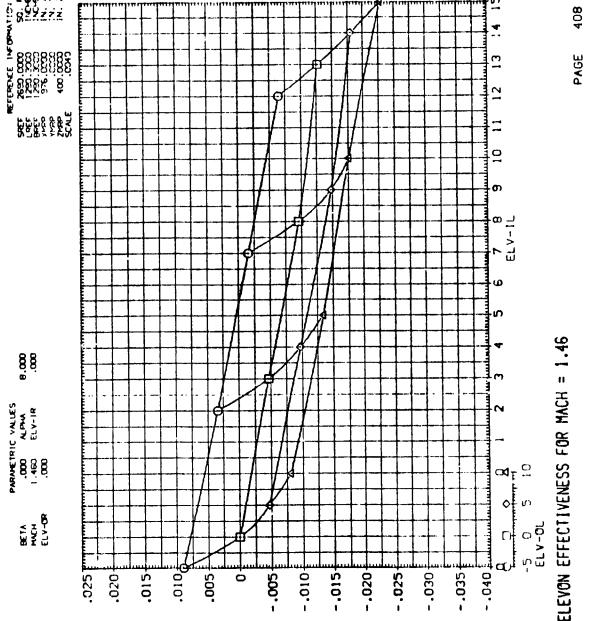
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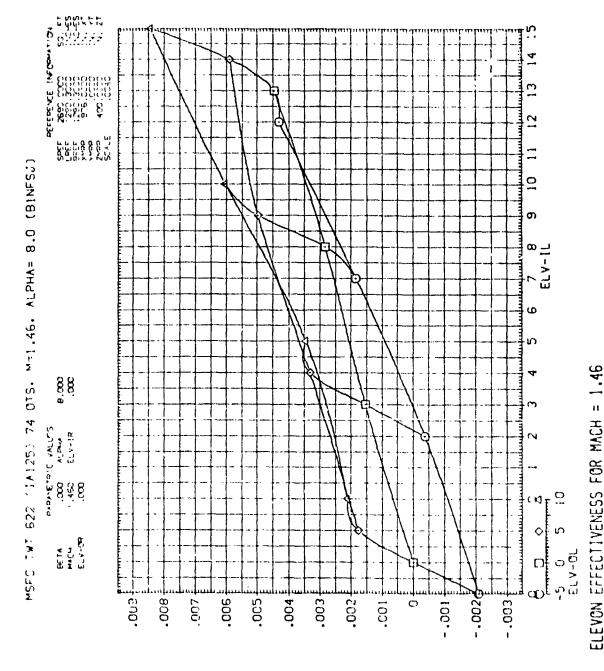
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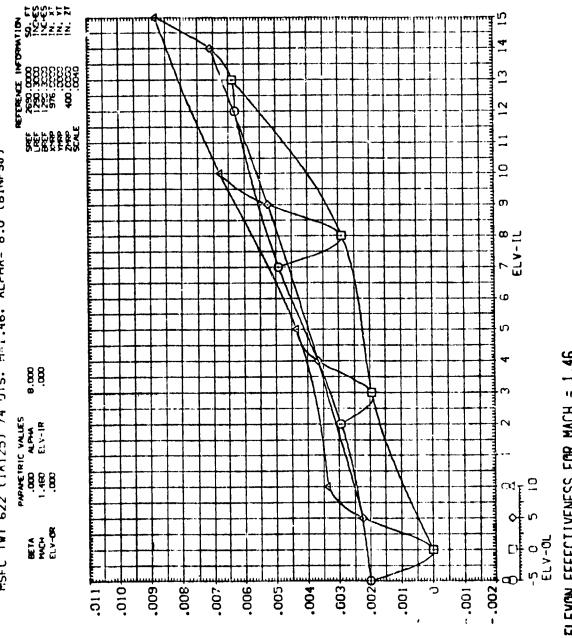
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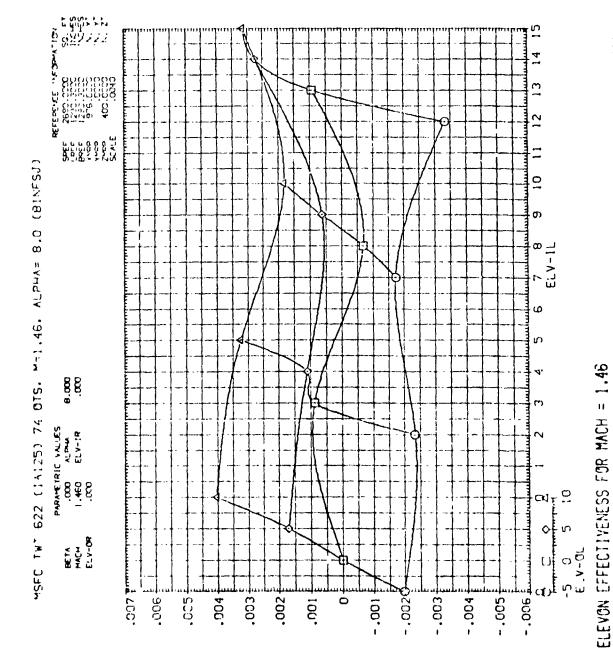
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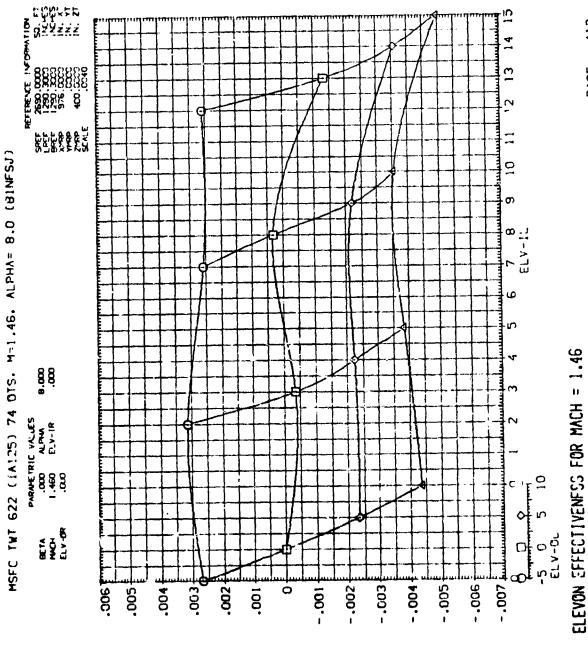
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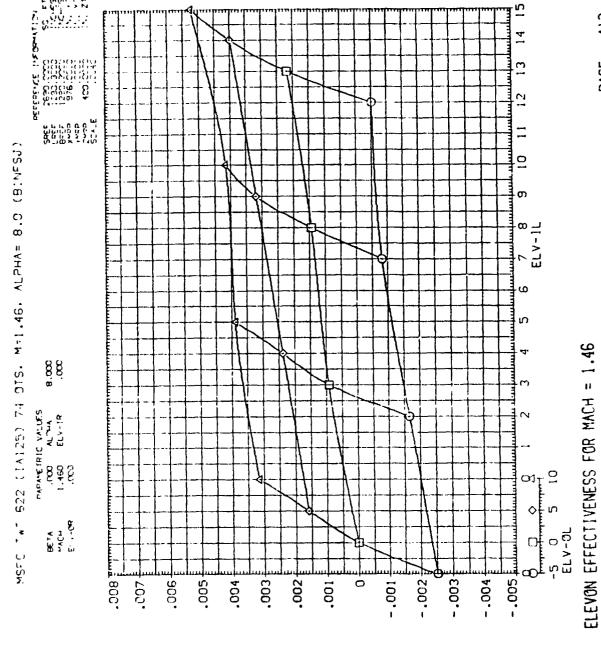
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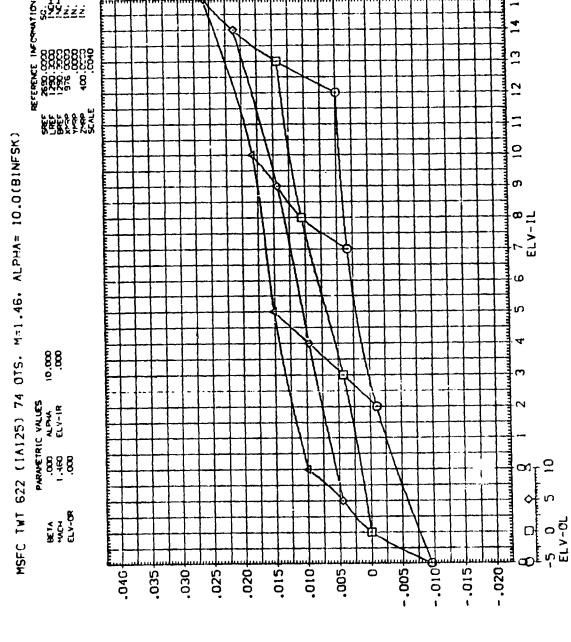
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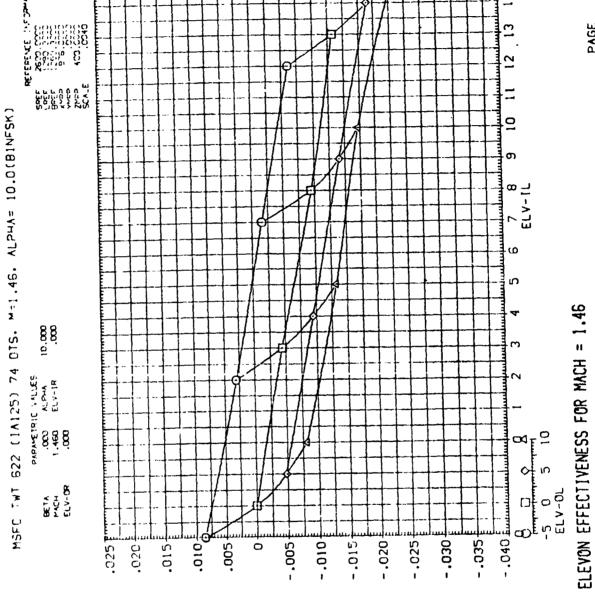


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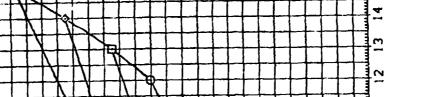
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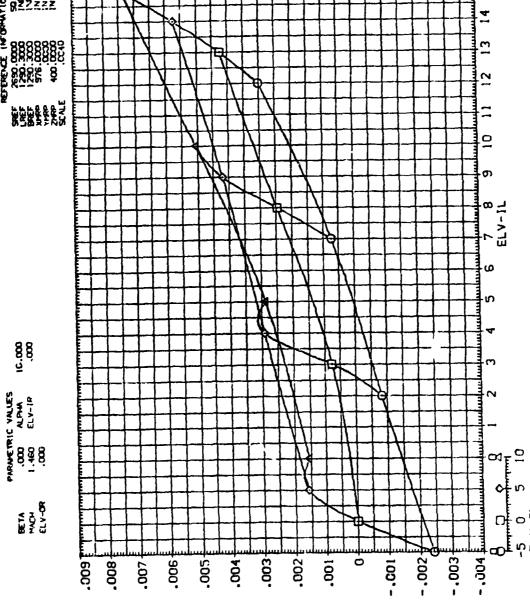


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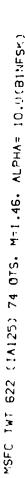
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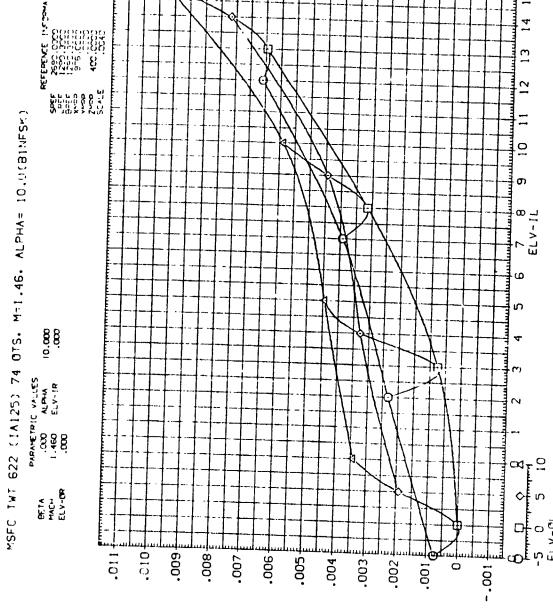
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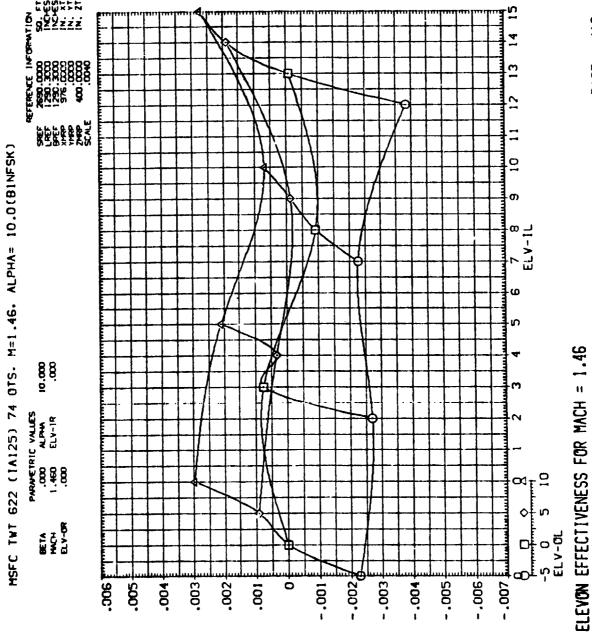
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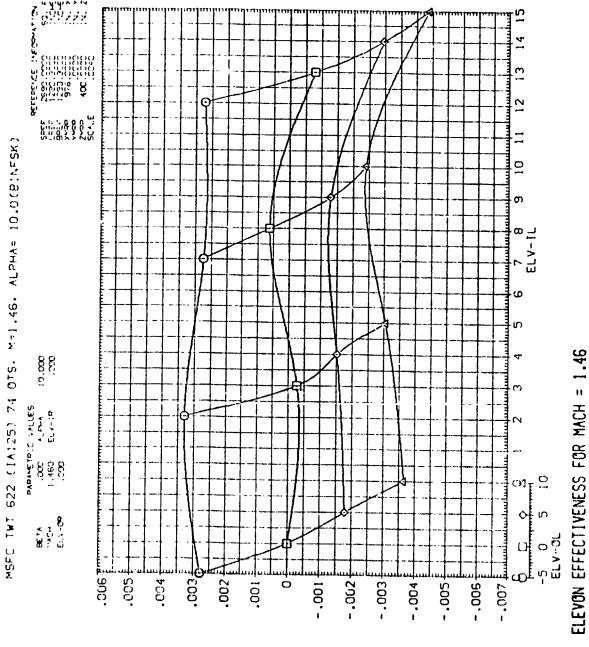


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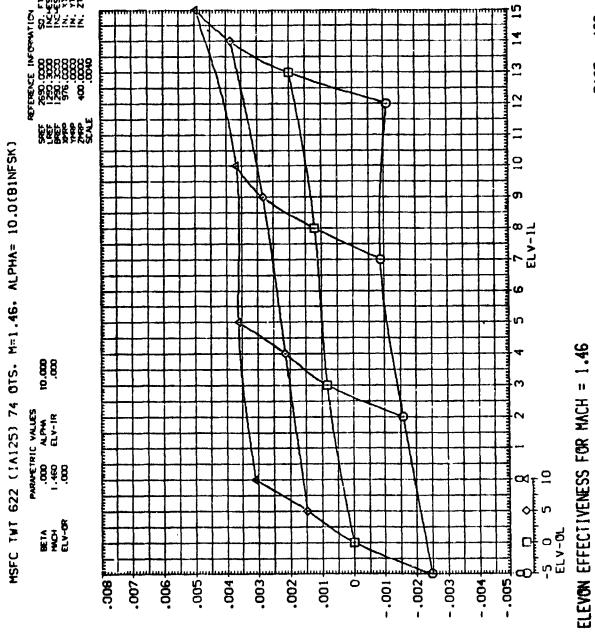
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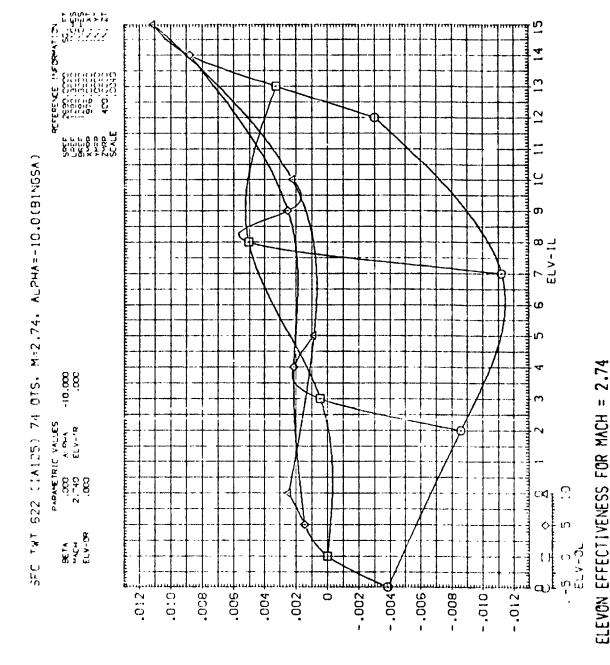
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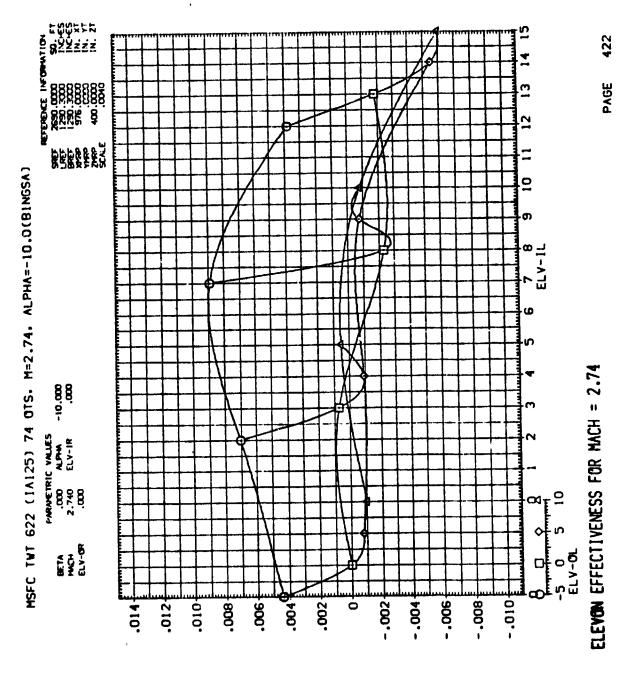


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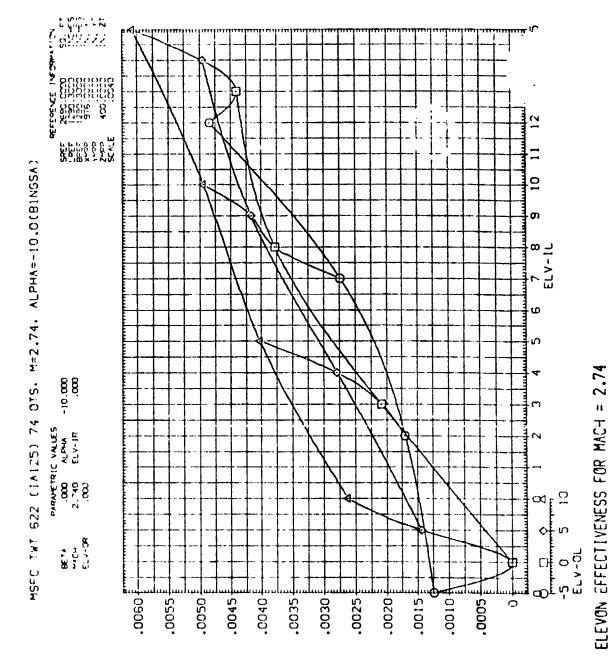
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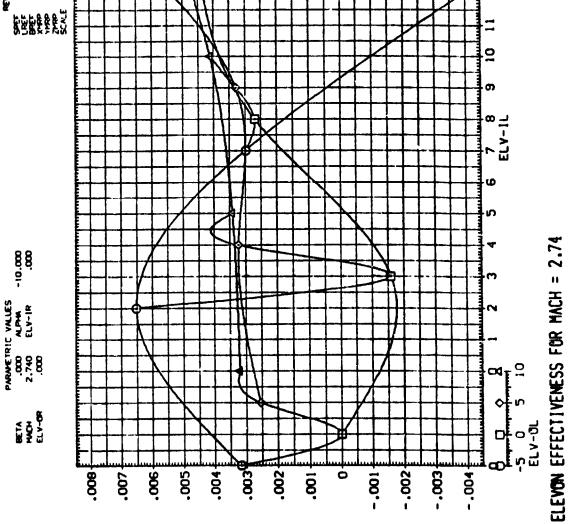
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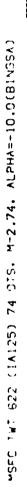
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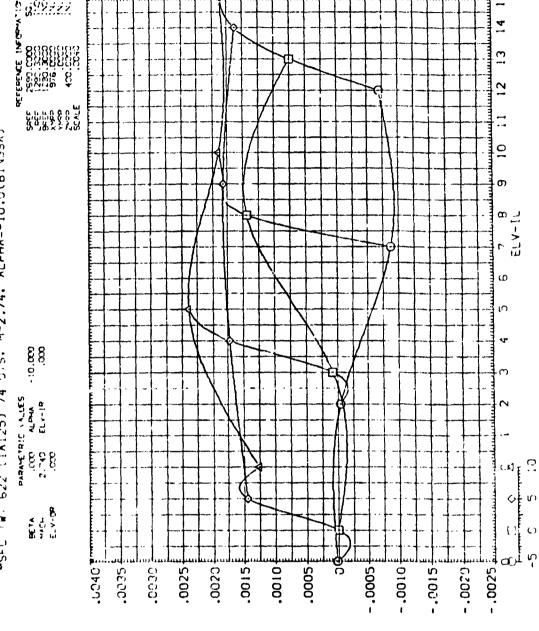
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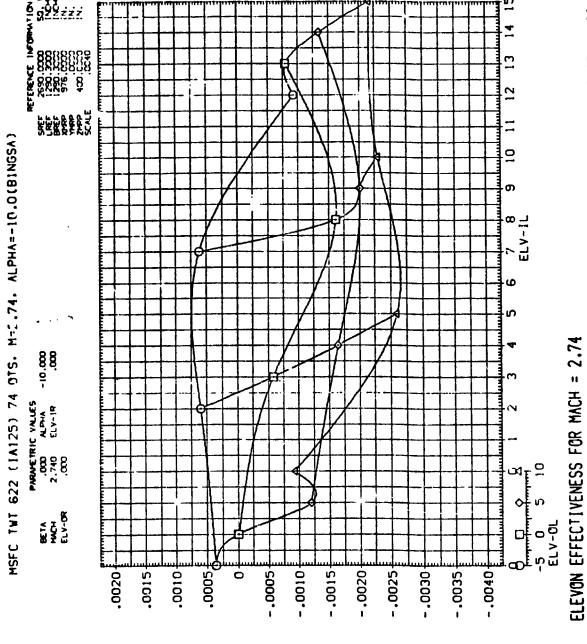




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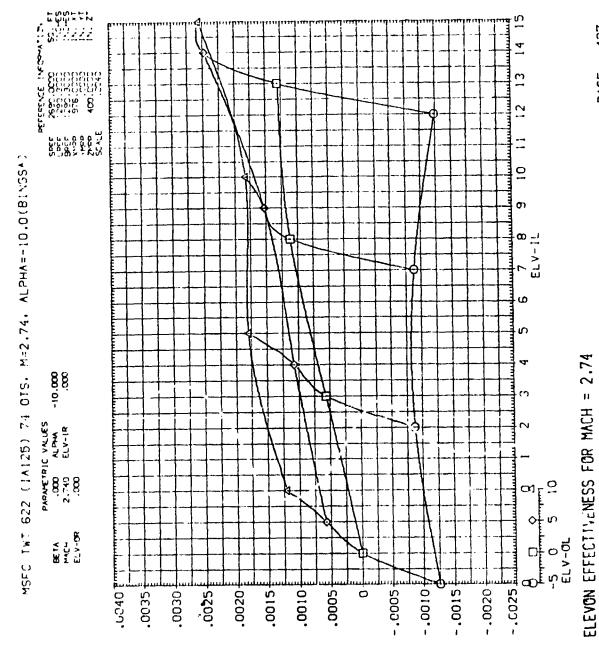
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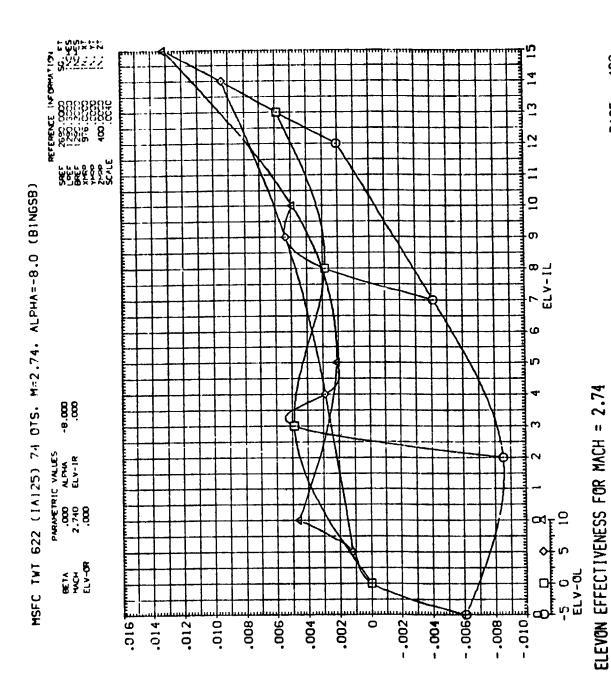
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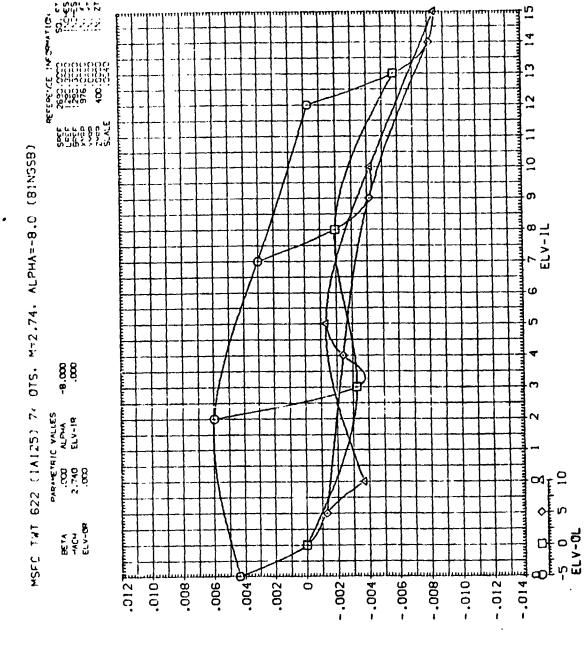
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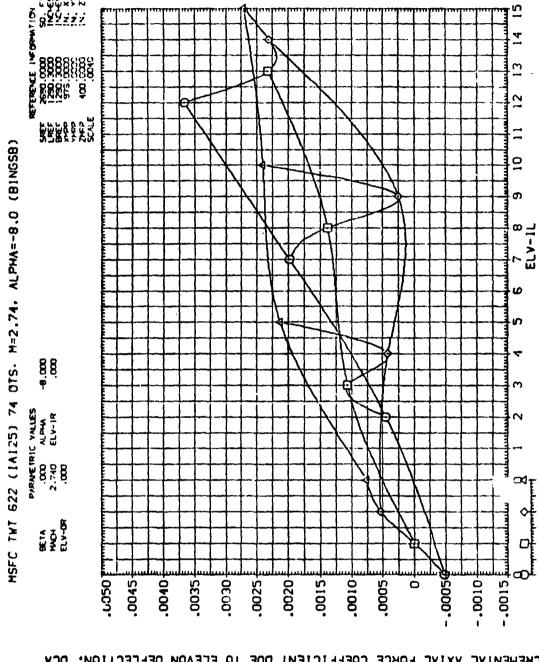


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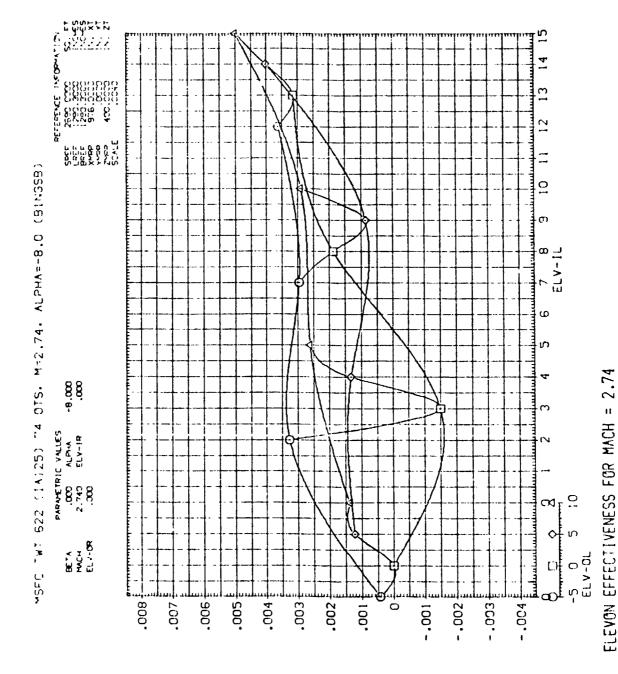
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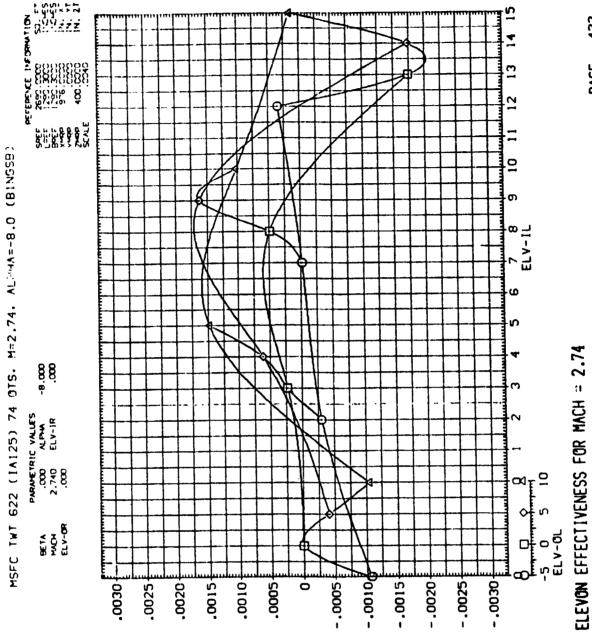


INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION, DCA



INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF

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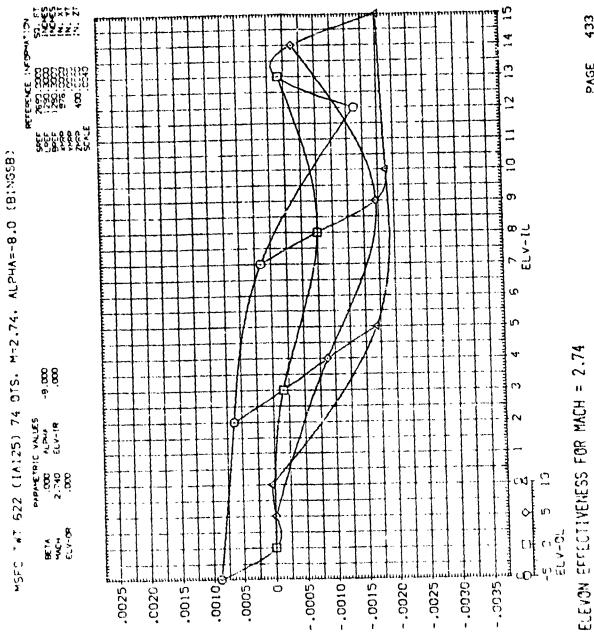


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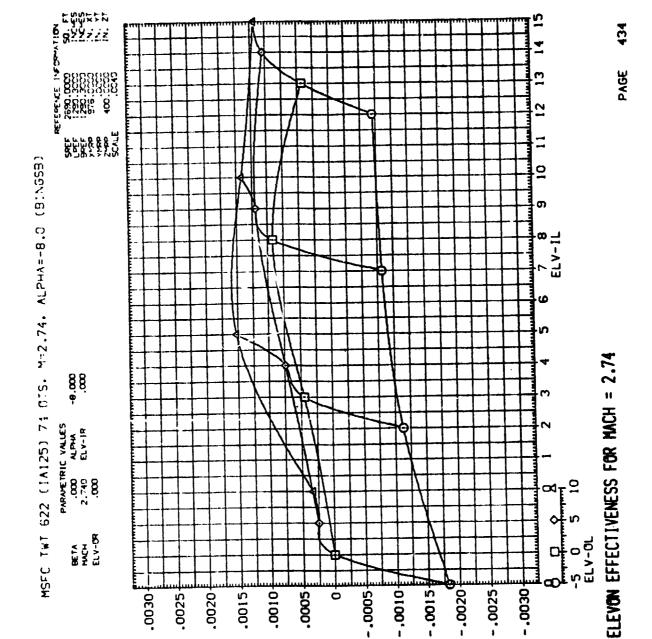


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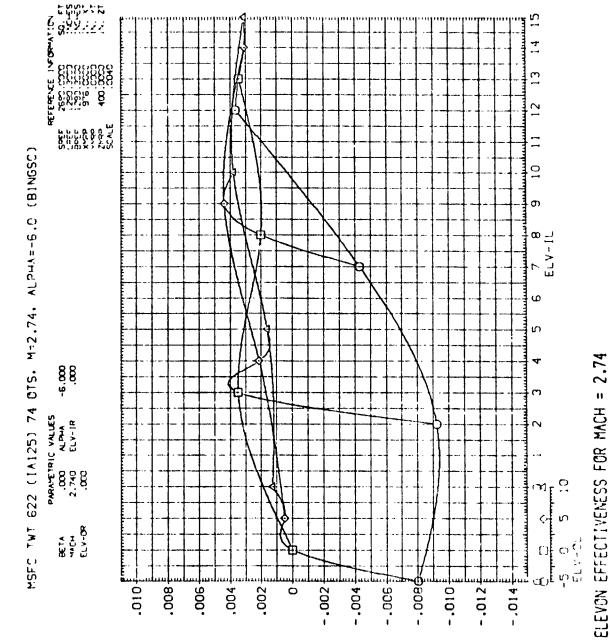
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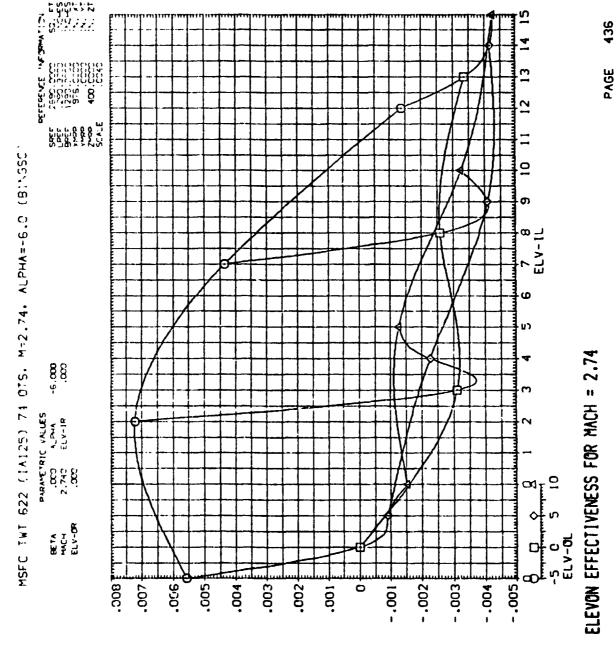
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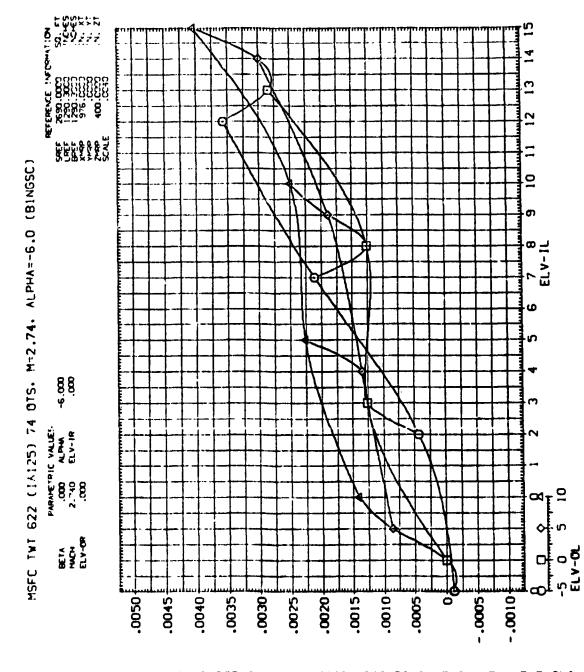
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INCREMENTAL NORMAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCN



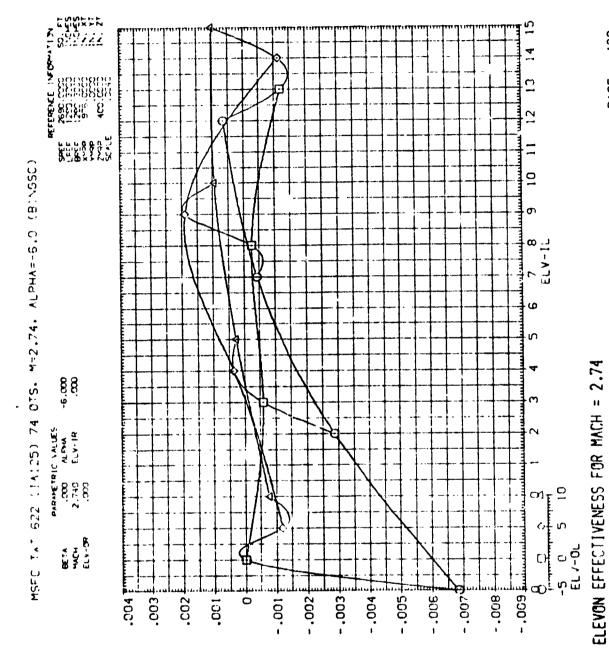
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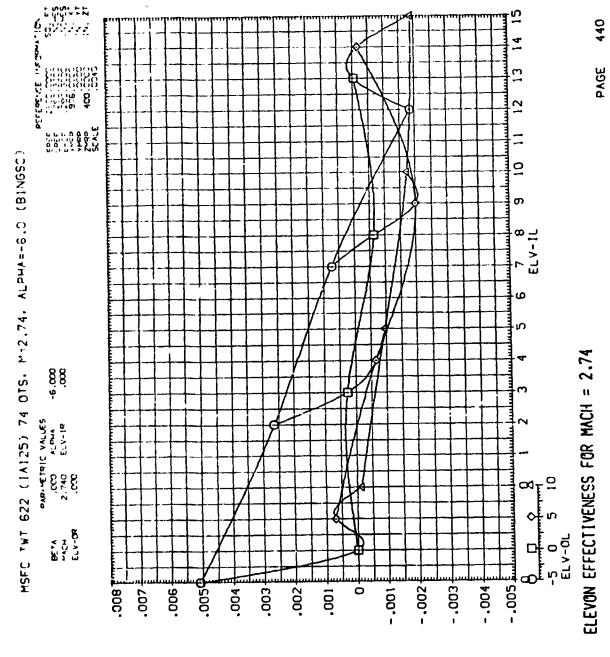
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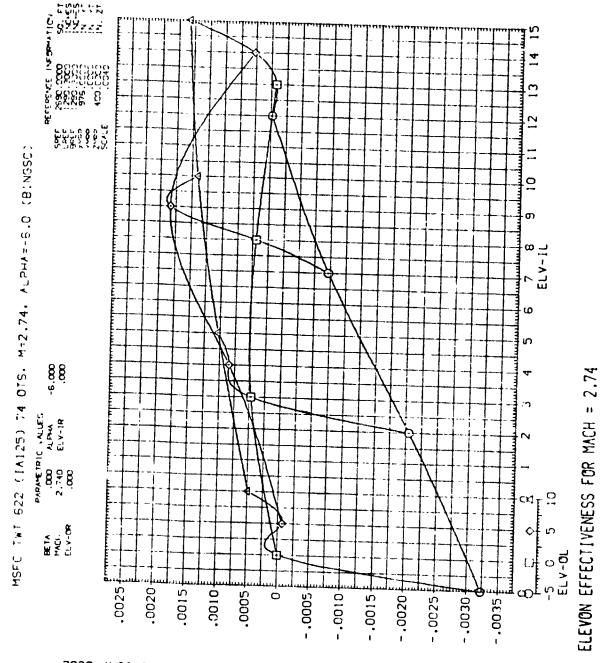


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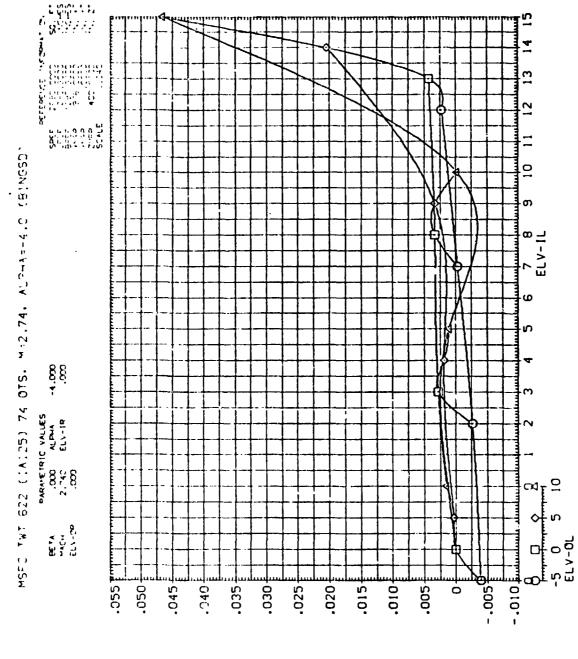


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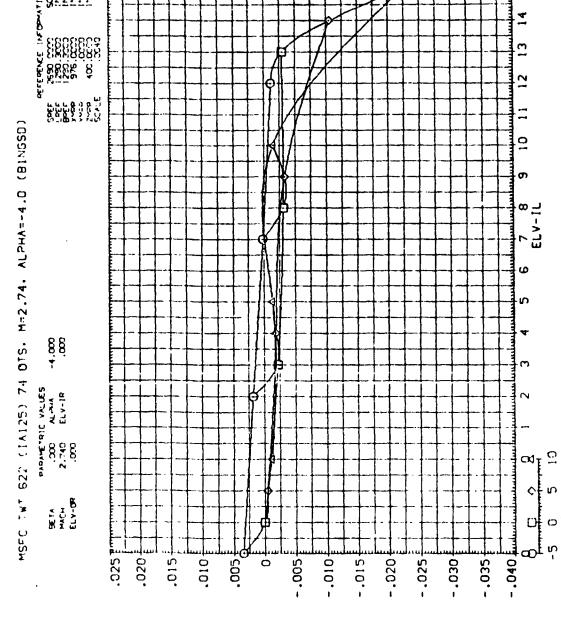
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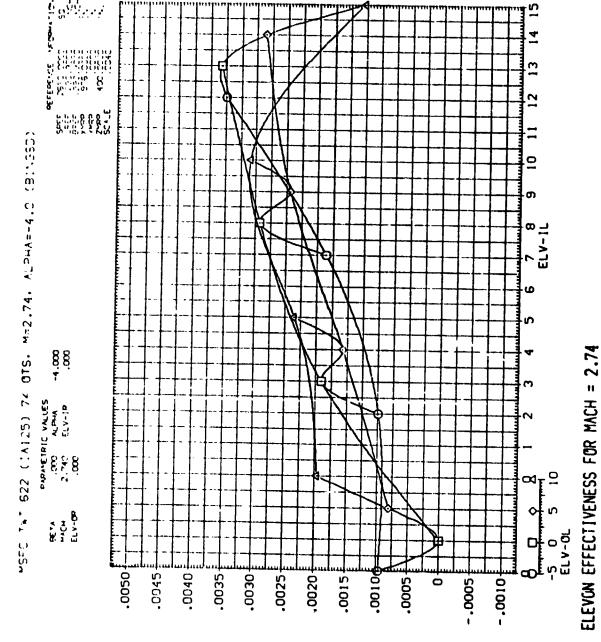
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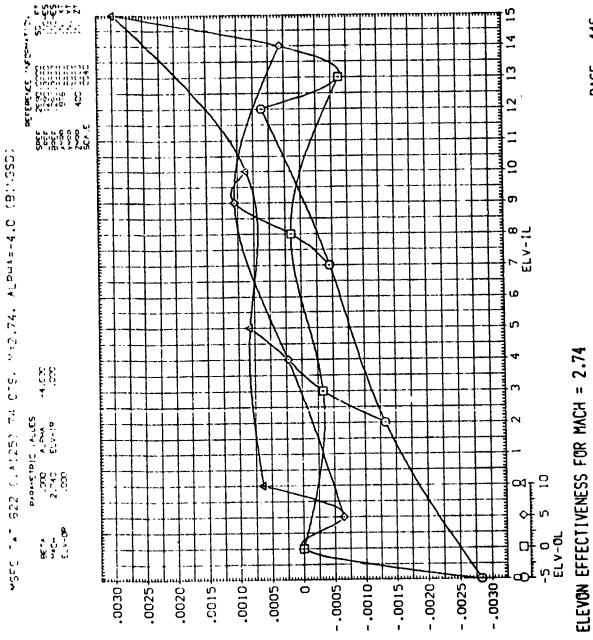
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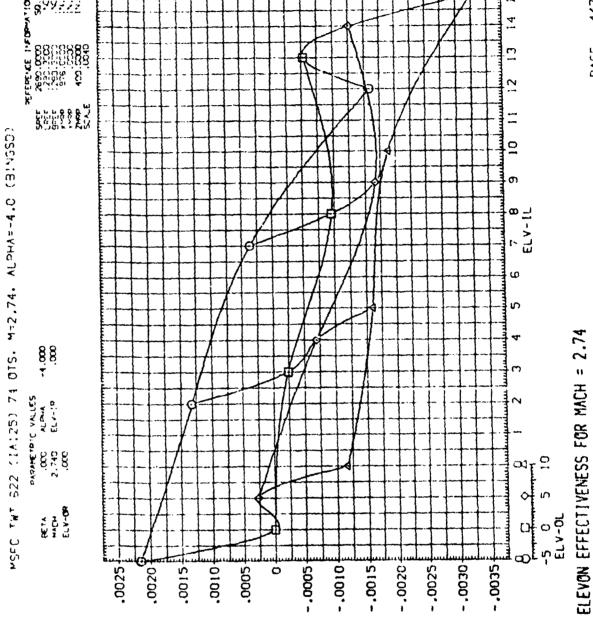


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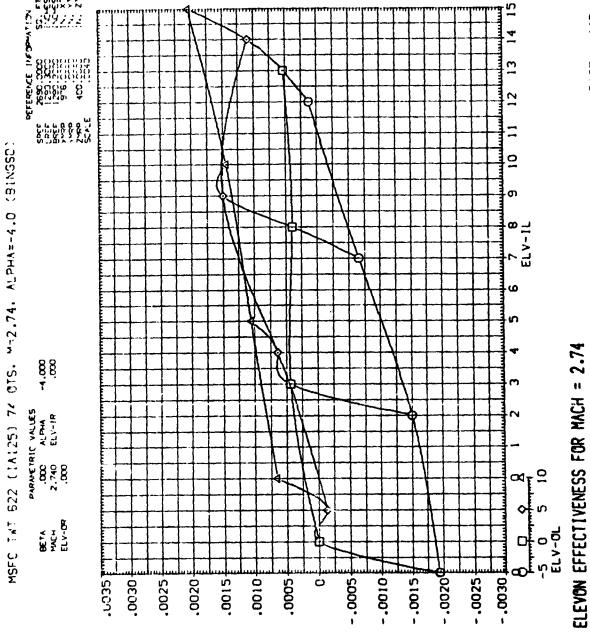
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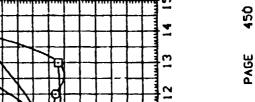
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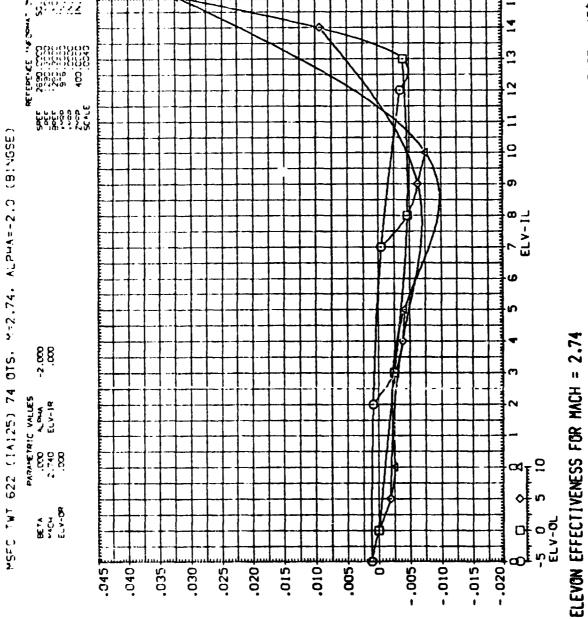
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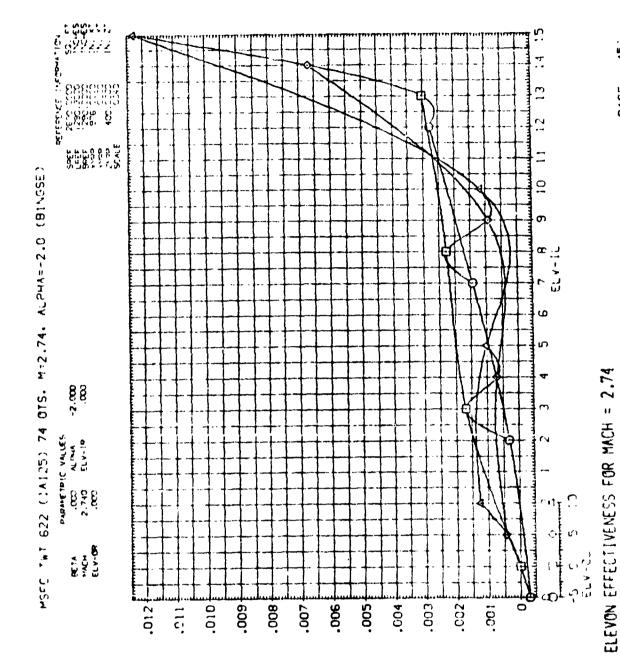
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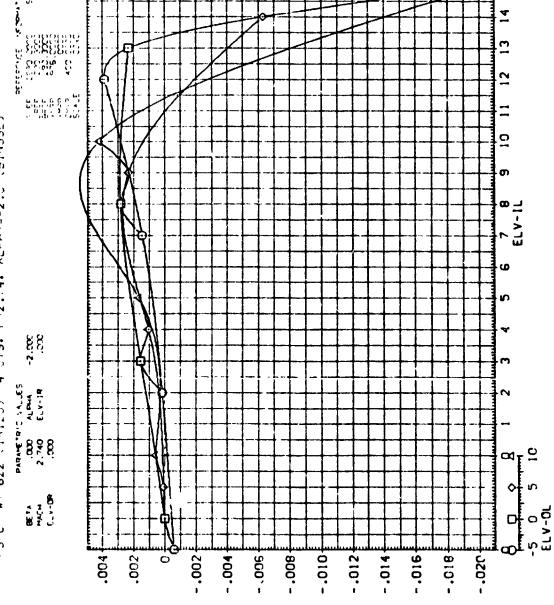


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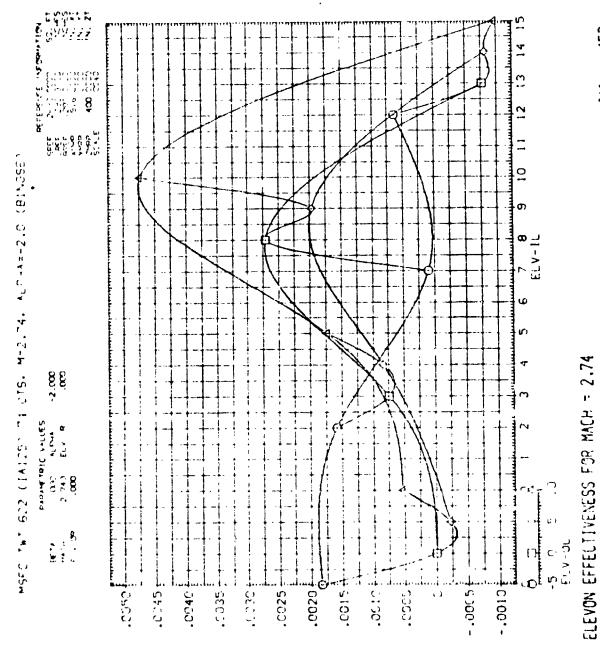
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INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEYON DEFLECTION. DCA



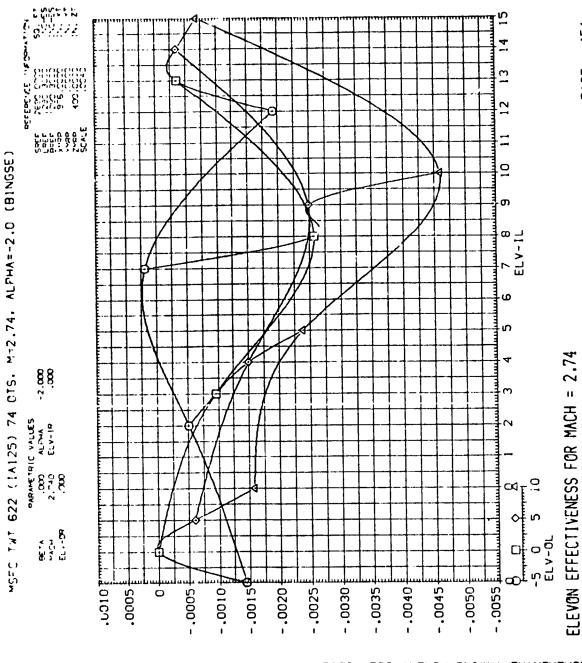
INCREMENTAL FOREBOOY AXIAL FORCE COEFFICIENT, DCAF



INCREMENTAL SIDE FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCY

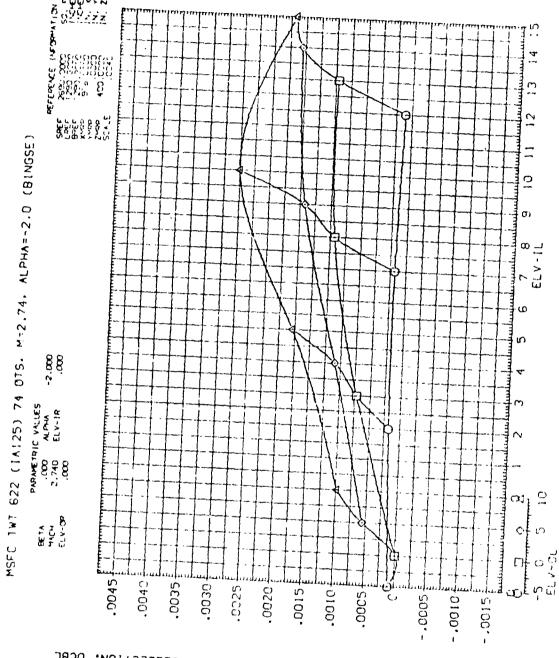
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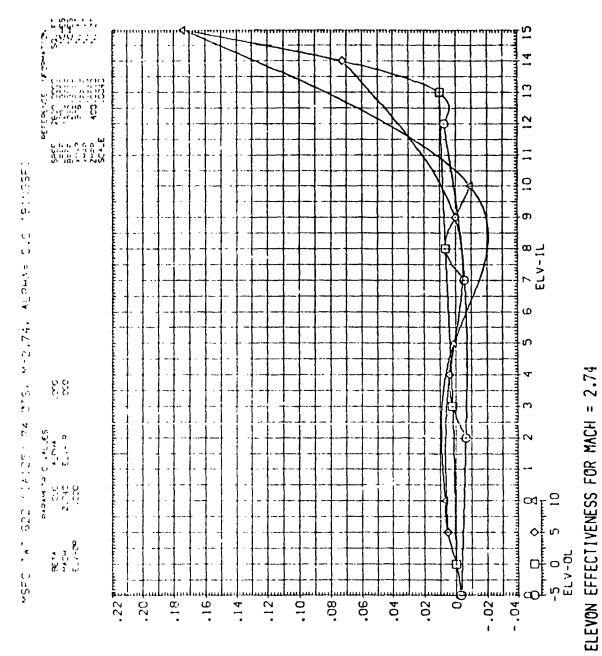


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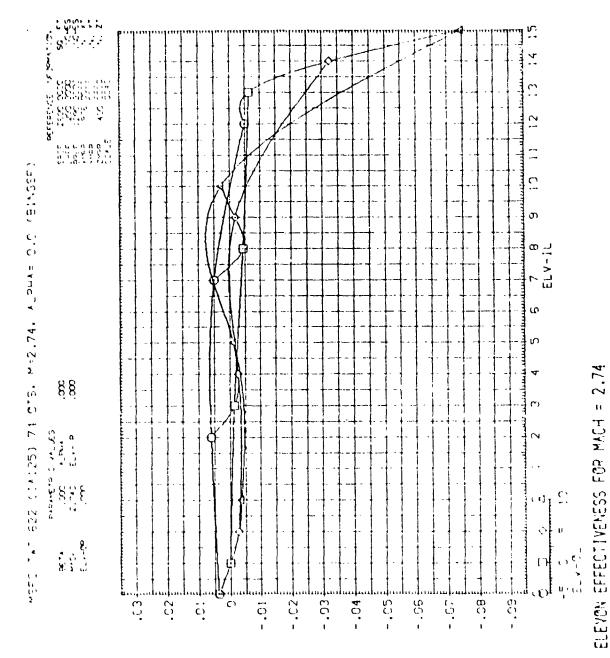
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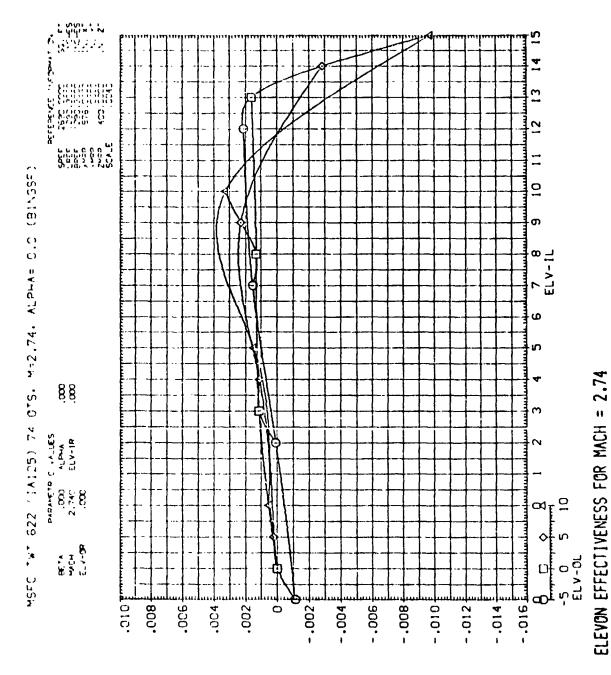


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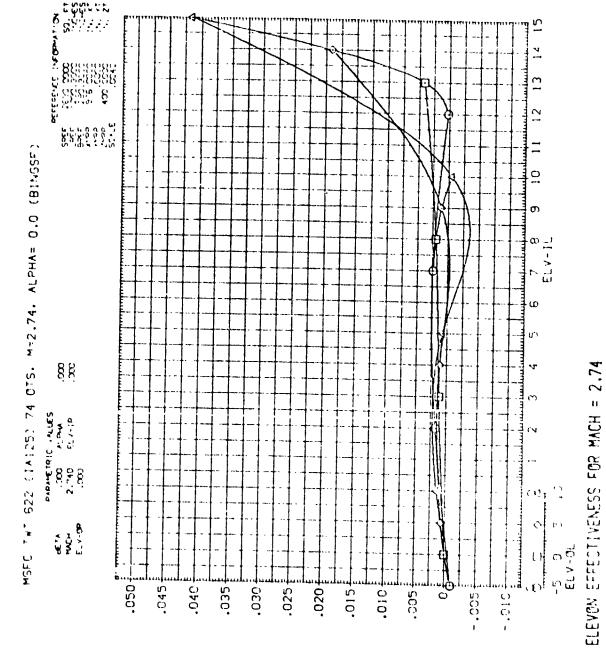


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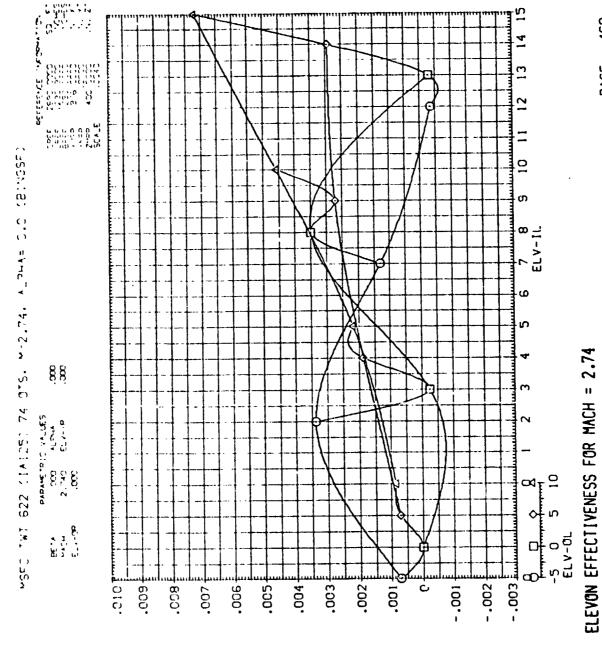


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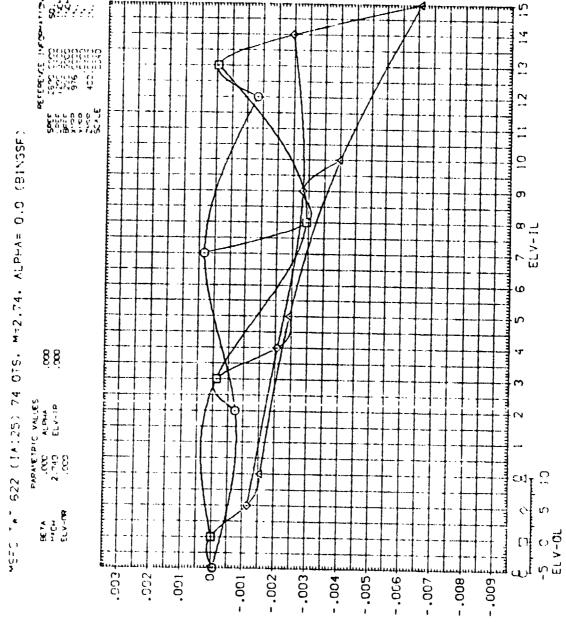


INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF

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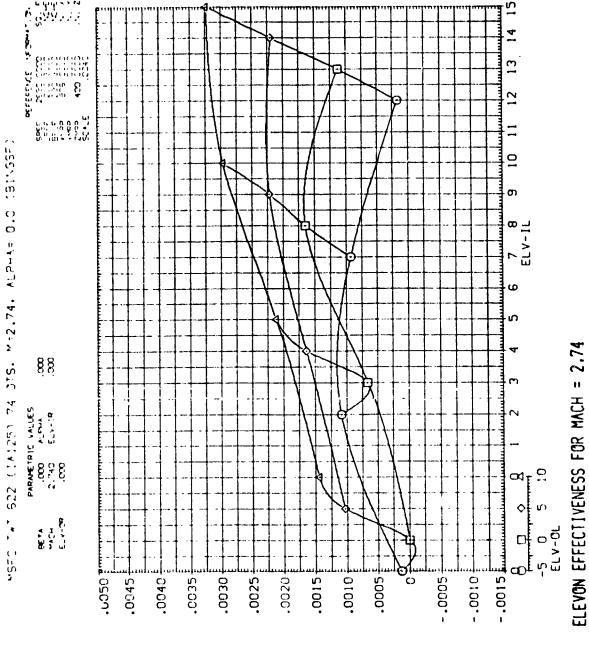
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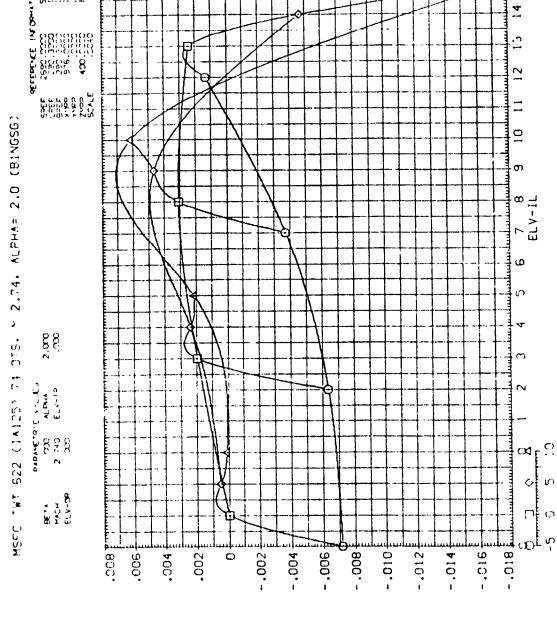
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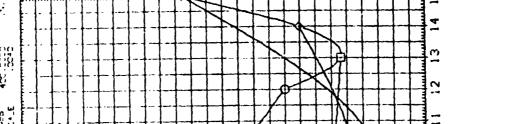
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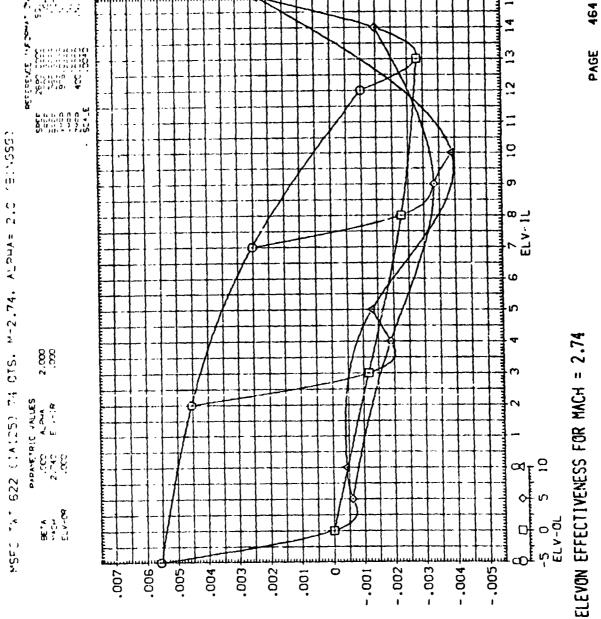


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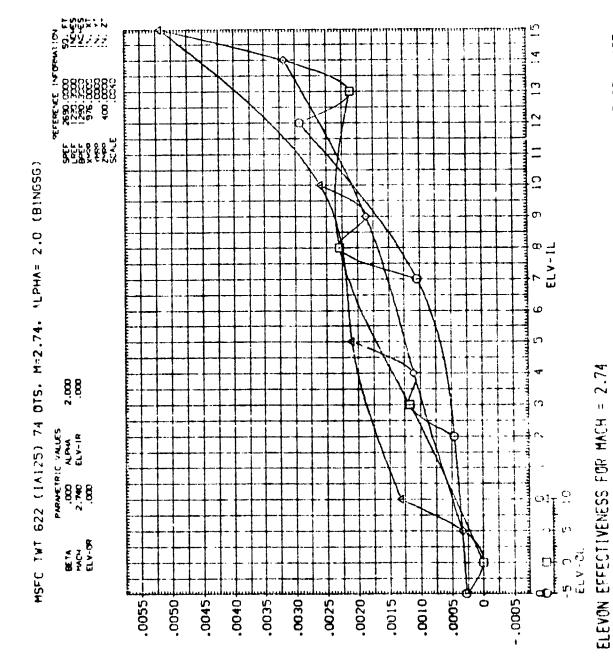


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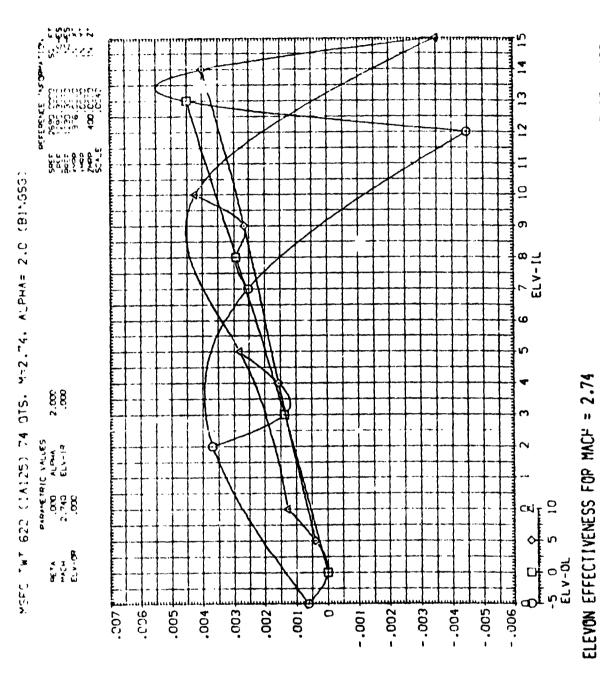




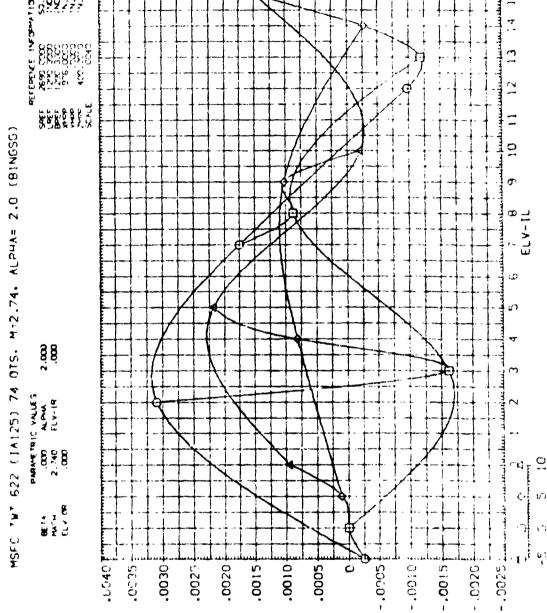
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INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCA

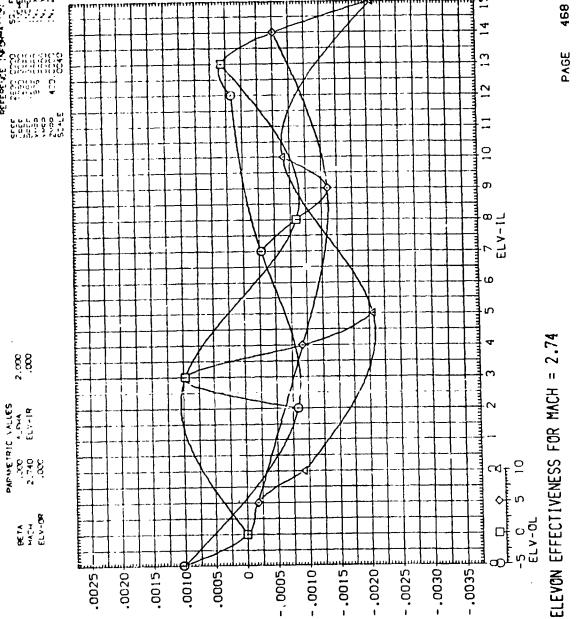


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INCREMENTAL SIDE FORCE COEFFICIENT DUE TO ELEVON DEFLECTION, DCY

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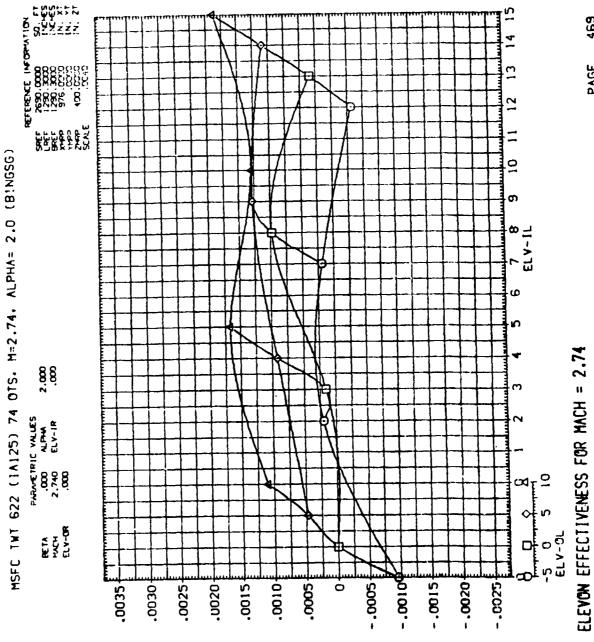
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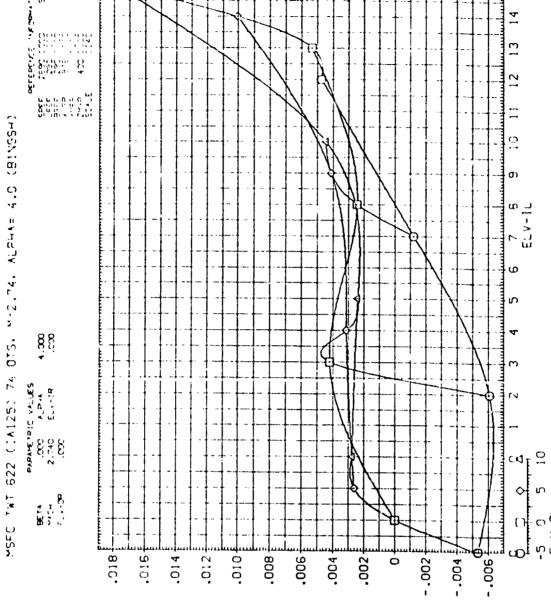
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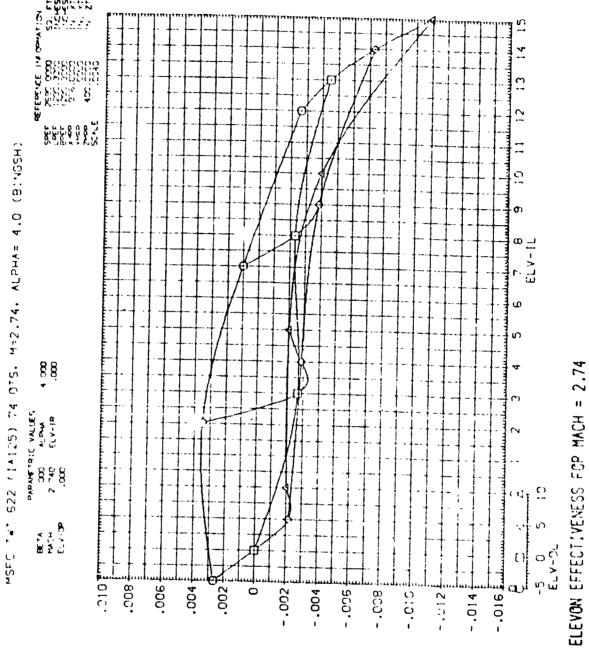
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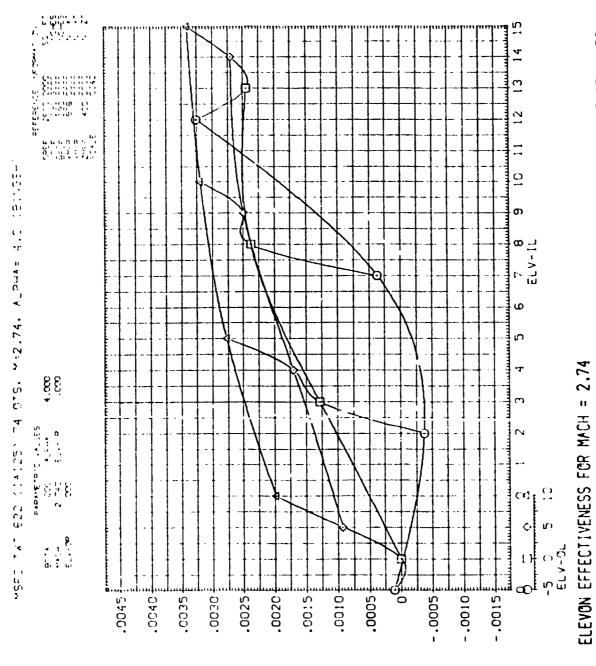
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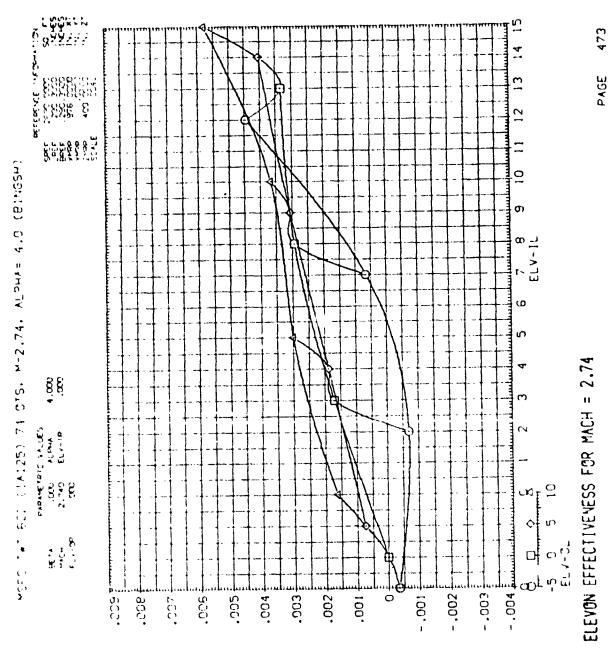


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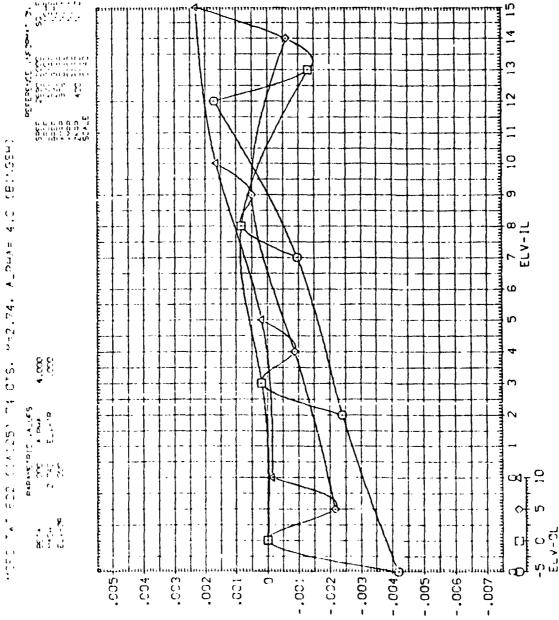
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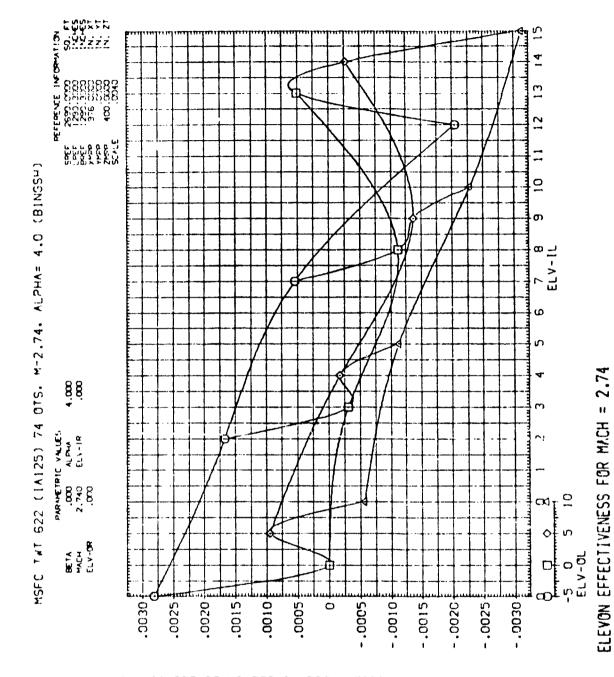
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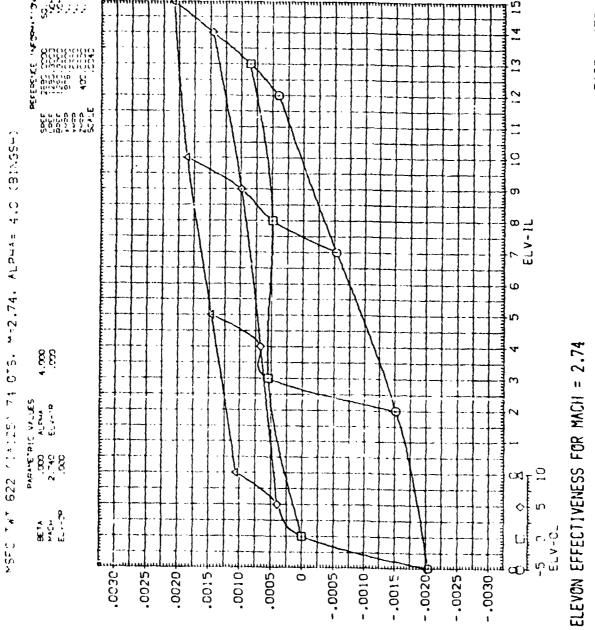
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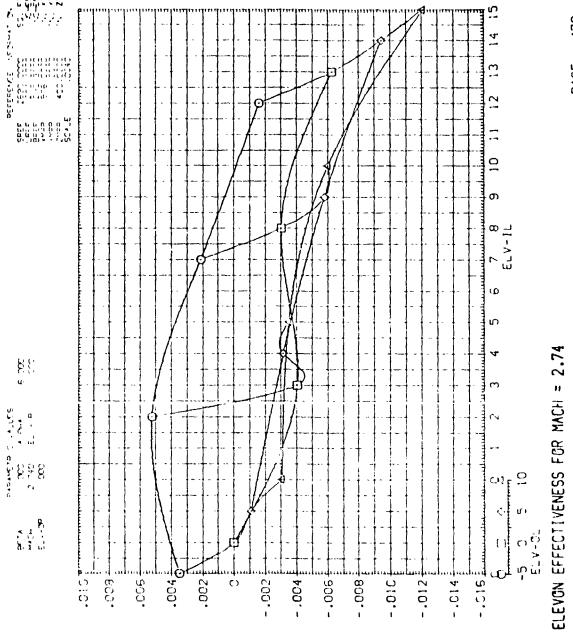




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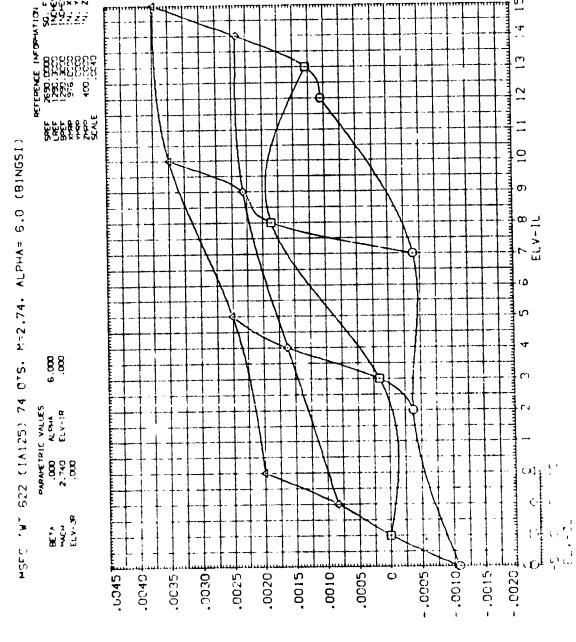




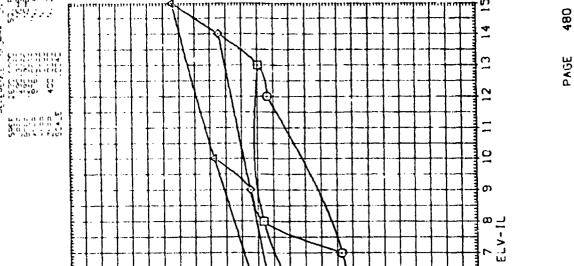
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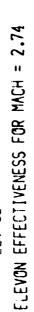
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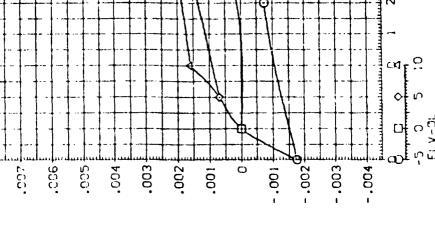
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INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION, DCA





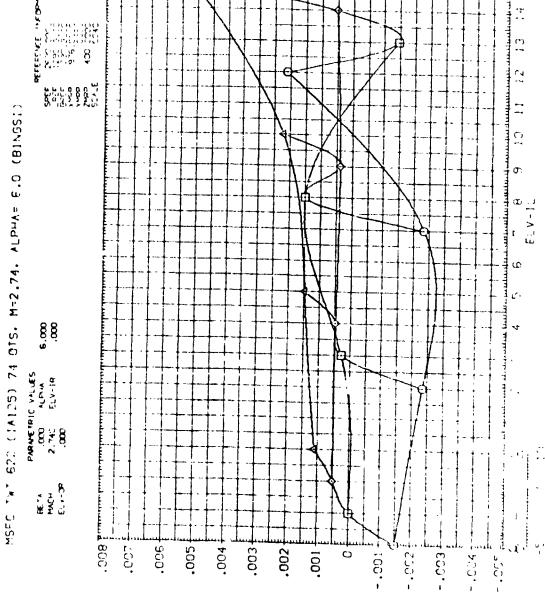


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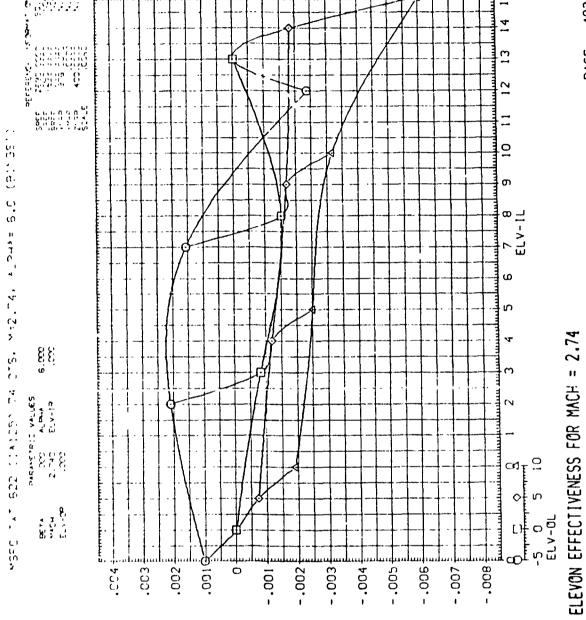
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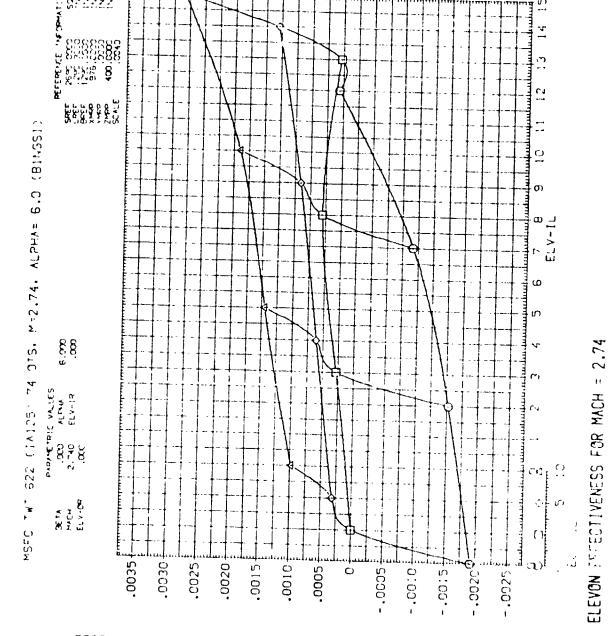


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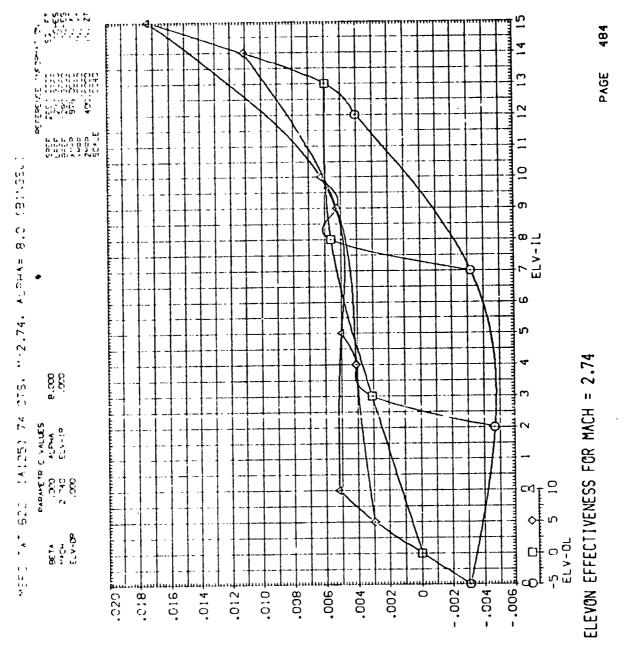
INCREMENTAL YAWING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION, DCYN



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INCREMENTAL ROLLING MOMENT COEFFICIENT OUE TO ELEVON DELLECTION, OCBL

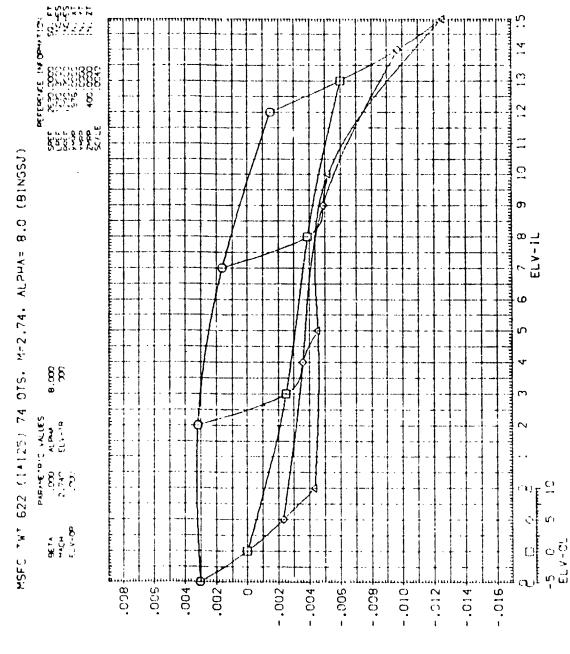
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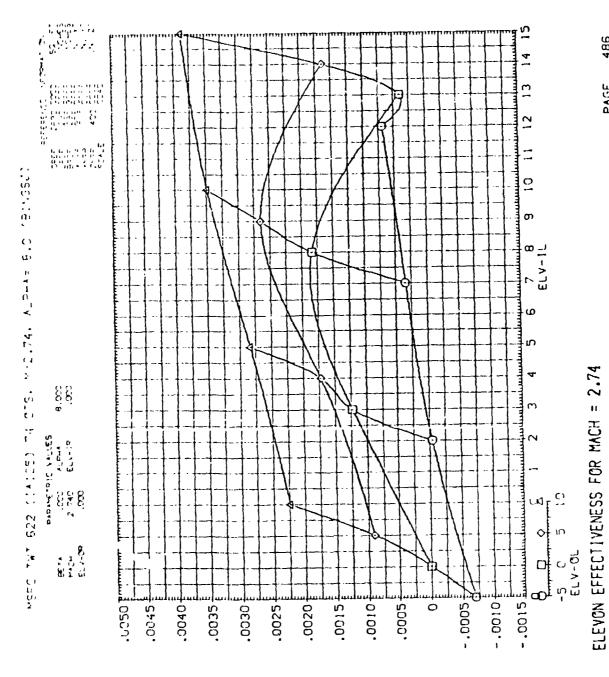
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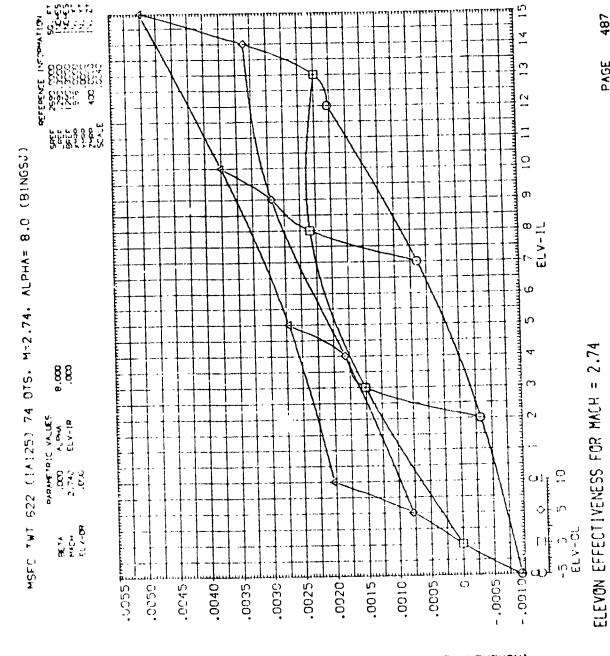


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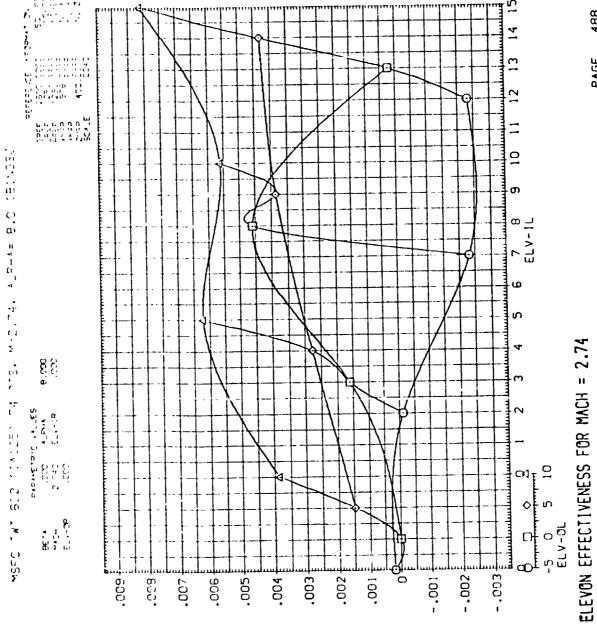


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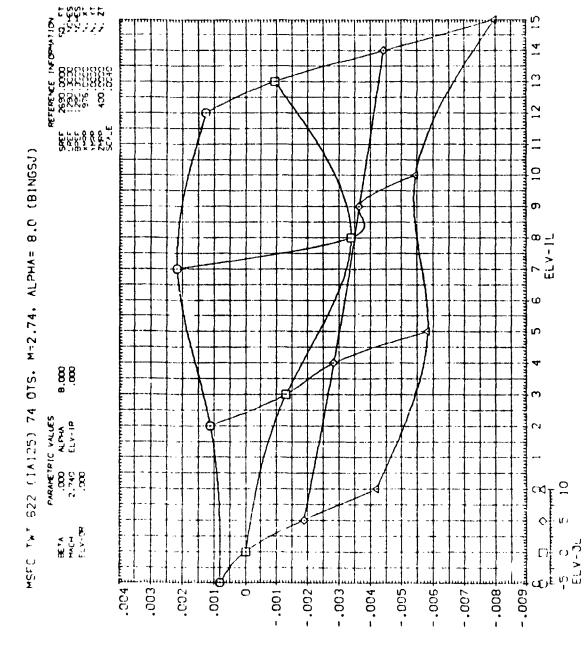


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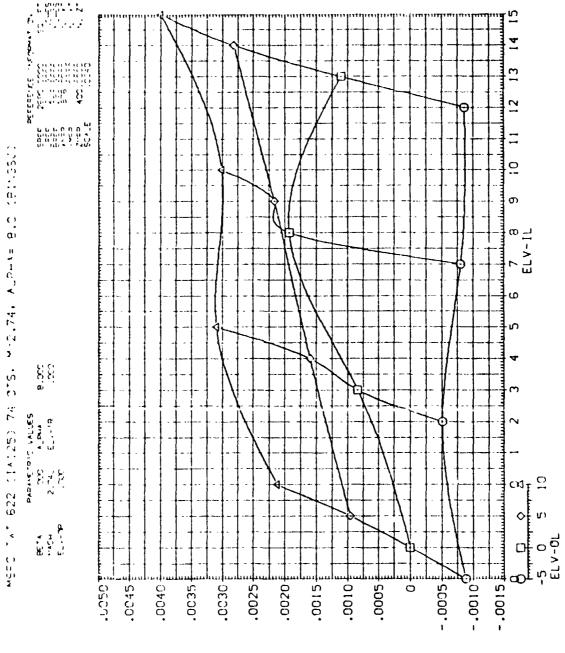
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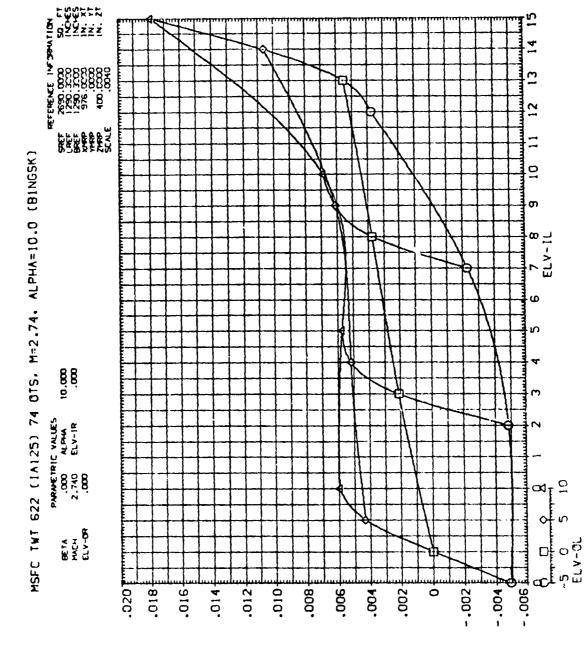
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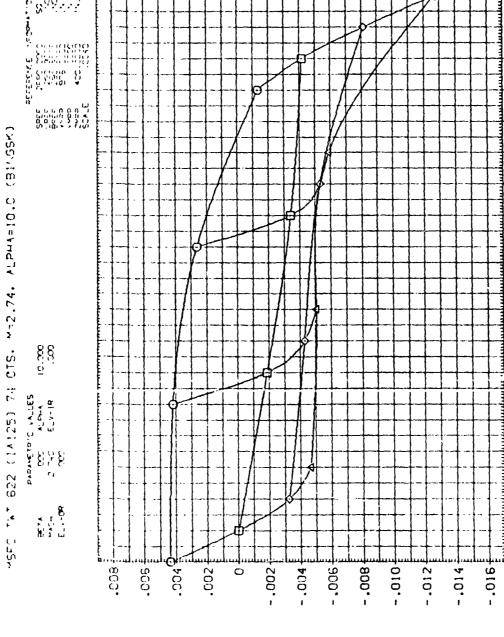
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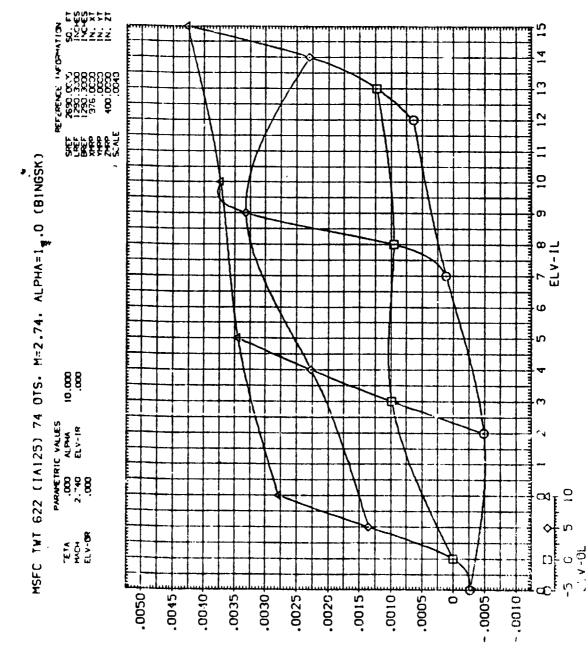
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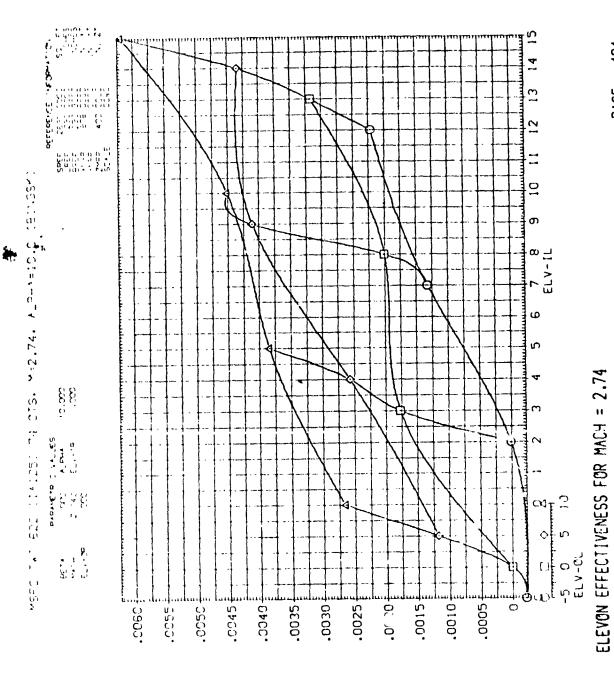
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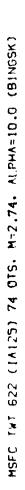
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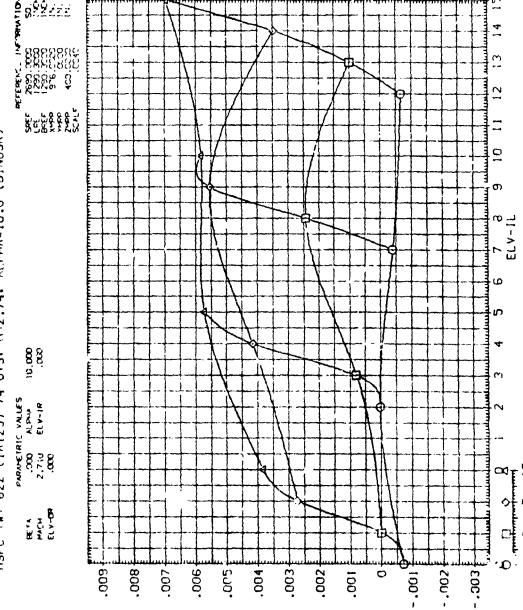
INCREMENTAL AXIAL FORCE COEFFICIENT DUE TO ELEVON DEFLECTION. DCA



INCREMENTAL FOREBODY AXIAL FORCE COEFFICIENT, DCAF

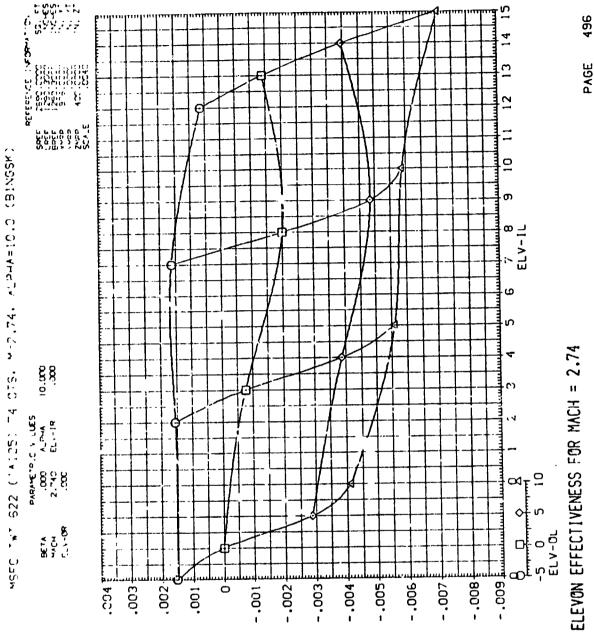


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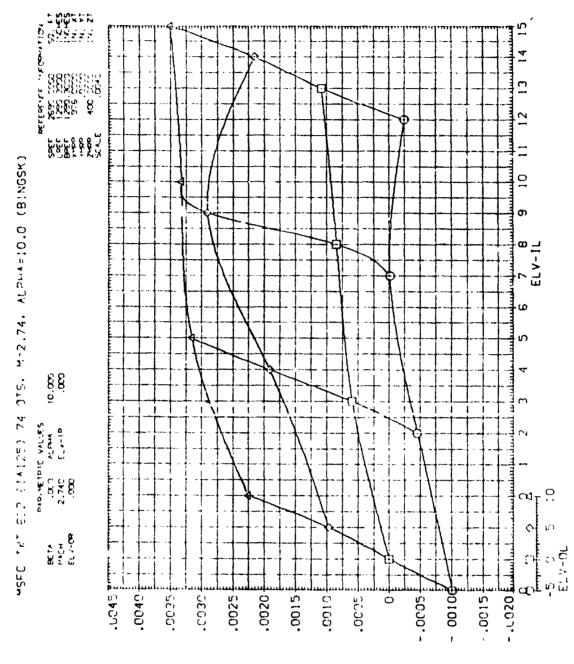


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INCREMENTAL YAWING MOMENT COEFFICIENT DUE TO ELEVON DEFLECTION, DCYN



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APPENDIX

TABULATED SOURCE DATA

Tabulations of plotted data are available on request from Data Management Services.

DATE 06 OCT 75	ict 75		TABLLA	TABULATED SOURCE DATA,		MSFC TWT B22 (1A125)	¥ 33			PAGE	~ W
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599	- 730	18300	. 09120	00800	.00300	. 10090	.11220	.00870	.03330	. 06190	08080
.599	1.480	05780	67740.	0.00940	.00330	04000.	. 10880	. 00850	.03250	.06100	01080.
.599	3.710	.06700	.00580	01210	05+00.	. 20020	. 10330	.00843	.03250	04190.	00620.
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.599	8.200	.33140	08+30	01990	0:700.	-,00193	0.08070	.00830	.03160	.06613	.07583
.599	10.270	.44860	13500	02360	. 90823	00250	.06880	.00810	.03109	.05620	05470.
.599	0.740	18800	. 09430	05570	. 50200	.93150	.11130	. 00890	.03390	.06210	01:80
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- 305	-10.860	81650	33440	00720	.00650	. 00340	. 13620	.01170	.04470	. 06930	. 09630
- 905	-8.280	62330	. 25300	- 01450	04010.	. 90110	14110	.01100	06140	.06490	08060
- 305	-5.850	09644	. 18220	01770	.01210	00000.	. 13980	.01090	.04170	. 16240	.08870
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MACH	AL PHA	Š		SC.	ò	CYN	<b>8</b> 5	CAF	CNBO	CABO	CABS	CABE
**	OCE +1-	<u>'</u>	780	.53690	.01330	00360	. 00610	. 22510	06510	.05220	06060.	. 10560
\$ 0 	-11.630	_	060	.42450	0,00640	00000		.23720	062.5	.05250	08970	. 09950
*	-8.90C		020	35,50	05:00.	CHAPOO.		. 64 / 40 C	504.0	00100	7688C.	on on one of
* 1	0.000		ก เก	24047	0.4000	1 C P C C	ה ממנים מינים מינים	64.546	n ()	00000	ב של של כ	י שנתר
1 1	7321	1.00000 0.401	7 E		0.000.1	1 6		15.4.4.5. 15.7.7.4.5.		20.5	0000	
350.	00E =		750	. 03550		00000		24460	00.10	0.270	.07880	01580.
1170	3.750		.14380	03820	0:530	080.0	0.00140	. 23850	01110.	03330	56513	. 38423
1.044	6.320		.30550	09990	C8713	00860		63010	.01:60	32+73.	08:80	C8375
1.044	B. 8		040	15290	02:53	0.000		07615.	.01180	0.040.	.08593	09080.
770 :	11.133	-	.58930	20500	0,02040	0.00		.21360	.01230	065-0.	CE85.	. 37520
**************************************	-:.:65	•	633	13910	. O. '₽	0.000		.24650	08:10.	05++3.	C 585.	08850
	GRADIENT		.06513	02395	9:55	;	00032	00113	00005	05023	95,00	00255
		ά	PCN NO.	70 0	BN/	5.96	CPAD'TN' !NTERVAL .	VAL5.007	00 5 700			
MACH	AL PHA	Š		r T	Շ	ŏ	COL	CAF	CNBO	CBVO	CABS	CABE
197	-15.050	1 -1.28150	1150	52950	30320	23082	00240	.25420	053.3.	02830	06590	09560
1.197	-12.820		375	07 - 1+	01:00	.00160		. 26220	017:0:	05620	. 29530	GJ+6G.
197	-9.310		250	.30570		.00350		.26530	.01350	.05160	.08270	08080.
1.197	-6 51C		ć,	.21580		.00260		.26500	01310	06640	. 98220	09:50
1.197	-3 890		533	. 13560	2:120	. 55855		07075.	.0.830	.04709	068-0.	00000
1.197	-1.259		585	06250	06410	00000		08√∟2.	.01183	00770.	. 97720	.0980.
1:97	1.310		. 03920	-,00070		06100.	00183	.27150	.01150	C: 440.	.00270	. 08680
1.197	3.830		5:0	05700		ontoo.		. 26650	.01159	. P. 73	.07660	.08530
1.197	6.460		.34170	- 154rú		32653		.26070	.01:20	. 04273	.07730	. 68133
1 197	0:06		05864	18630	02050	.03750	•	. 25220	01140	.04333	0.07970	01770.
1.:97	0:4:1		.63950	23130	32510	00000		. 23920	.01183	C6+40.	. 08200	01220
. 197	-1.190	12	.12780	.06330	01620	£ 600.	00133	.27720	01150	.04390	00540.	.08623
	CRAD!ENT	98	. 065 . 0	02526	F. 0007#	01 03 03 03 03		00051	63000	00035	00335	9000

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Jan Lynn British Comment

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TABULATED	
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DATE 06 OCT 75	K 73		TABLLA	TABULATED SOURCE DATA,		MSFC THT 622 (1A125)	A123)			PACE	M
			<b>Y</b>	THT 622 (	IAI251 LAUN	MSFC THT 622 (1A125) LAUNCH VEHICLE, 74 OTS	210 st		(R1N001)	1) ( 29 HAY 75	Ł.
	REFERE	REFERENCE DATA						_	PARAMETRIC DATA	DATA	
SPEF - SCALE -	2690.0000 SO. 1290.3000 INC 1290.3000 INC	SO. FT YMRP INCHES YMRP INCHES ZMRP	976.0000 0000.000	.0000 IN. XT				BETA • ELV-OL • ELV-OR •	000.	ELV-18 •	000°.
		75 80	135/ 0	RN/L	6.43 GA	GRADIENT INTERVAL .	NAL5.00/	5.00			
¥Ç¥	AL PHA	3	5	ដ	3	5	CAF	CMBO	CABO	CABS	CABE
1.456	٠	-1.22510	.50660	09240	.00200	.00530	00662.	.01130	.04320	.05790	05020.
1.466		95500	. 38720	00510	04600.	01400.	02425.	.01150	.04370	. 05980	.06710
1.466		710+0	.28163	00570	.02580	.00320	06≯62.	.01030	.03930	.05840	.06630
466	-6.440	+9510	. 19690	01290	. 00540	. 39150	. 29380	03800.	.03620	. 05620	.06470
1.456	-3.750	30150	098:17	01000	. 90380	. 50125	. 29200	. 20920	.03520	.05380	.06340
1.455		:2210	02110	01370	04900.	016001	. 29250	01600.	.03+60	. 05290	.05330
1,466		.03830	00733	01780	.00830	-, 00140	. 29200	01600.	03480	. 95230	.06380
1.466		19420	-,05220	01900	.03820	50235	6:062.	01600.	.03460	.05370	.0 <b>6</b> 460
1.466		332.0	11653	02230	26600.	33362	.26550	00600.	.03420	.05620	. 06403
1.456		36:84	17:80	02300	02500.	00390	0:082.	06800.	. 93410	0.05640	.06230
1.466	=	63250	21333	02590	31608.	-,00453	.27320	.00890	.03+00	.05760	.06270
1,466		11540	0.040.0	013+0	. 90580	.00000	25,65.	0:600	.03470	.05310	.06350
	3	.06243	- 92321	00163	.00058	9+000"-	+2000 -	1,00001	00007	+0000-	91000.
		P. M.	160/ 0	PAN/L	5.10	GRADIENT INTERVAL .	TAN5.00/	5.00			
H CAM	4.9	ž	ž	Շ	N.	6	CAF	0 <b>0</b>	CA80	CABS	CABE
2.740	•	- 74130	29090	07600	00000	. 00263	.28770	.00390	01480	. 02530	.03120
2.740		51:80	.23840	00190	.00250	.00120	.27780	.00380	01450	.02500	.03140
2.740		+8220	01:61.	00090	. 00210	. 50:20	. 25810	00400.	01240	. 02610	.03310
2.740		35250	061417	002:9	.00233	. 00080	. 25823	.00430	.01650	. 02560	.03320
2.740		23500	.10050	00420	00400	. 00053	0,75%	.00450	.01710	. 02510	.03200
1,10	269	12880	01650.	00710	.00530	00383	. 25030	. 00450	.01720	. 02540	. 03000
012	1.570	02830	03740	00500	.00370	00020	. 24670	05400.	.01740	.02540	. 02920
N. 750	3.830	.07483	00070	-,00560	.00360	00055	01840.	. 00450	.01730	. 02-200	02840
P.740	6.140	. 19670	04010	00750	00+00.	00030	. 2×030	.00460	.01750	. 02430	.02730
2.740	9.460	.305+0	08340	00870	.00270	00110	. 23640	.00460	.01780	05.20	.02650
2.740	-	04624.	12990	01110	.00350	00170	. 23300	.00460	.01750	02250	. 02550
2.740		10900	. 06030	00610	.00459	00020	.25110	.00450	.01730	. 02530	.02943
	ORAD! ZNT	.04539	01473	00023	90012	00011	00139	00000	<b>,</b> 0000 .	00001	000-

Through total to por

CATE 26 0	OCT 75		. A9.	ABULATED SOURCE	DATA, MSFC	THT 622 11A	ĵĝ.			9 <b>4</b> 9
			¥	FC *** 522	MSFC "AT 522 (18125) LAUNCH VEHICLE, 74 OTS	H VEHICLE, 7	4 01S		(81705)	88
	PEFEP(	REFERENCE DATA							DIATAMETR!C	DATA
SREF . LREF . BREF .	2690 0000 1 1290.3000 1290.3000	SQ F* XHRP :\CHES YMBG :\CHES ZHGB		X . X . 0000 . 00 +				4L944 #	0 0 0 0 0 0 0 0 0 1 0 0	51.4-16 51.4-16
		£ ₹9	0. 131/ 0	• 7/Na	Va9 :6 1	GRADIENT INTERVAL	/AL + -5.00/	5.00		
1	1		ī		Ž	ď	۲۷	CEND	CARO	CABS
	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		400		- 18150	04620	64590.	00800.	. 53450	. 08530
, g	666		(A)		:6243	0	27790	000000	03400	.08120
( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	-6 -7 -3		3002		:3330	. 23233	09120	20893	.0327	27873.
e e	0-5,4-		200		0::0	2631	52:35	09800.	03810	25763
292			33030		-,05750	383	CN 70 : .	9000	0 8) 8) 0	5.550.
	C M		304		- 01650	01300.	0690.1	0.00	23~70	. 25290
i ir	-		5000		00+20	000	000000000000000000000000000000000000000	59833.	0.326.0	CBE 85.
1 L	750 5		1555		0.35		000	Cabco	23722	.06322
	67. 8		3.00		() () ()	5.0.5	 Can	030800	0.00	CELED.
H C Y	or or		25		36.00	32530	0+000.	10000	2550.	04990
י עי טייי יי	1 1 2		(C) (E) (E)		6.7.	C 223 -	Can at	E M	.03933	24762
, r.	M		(i)		CB4.674	02933		() () ()	G G	553.
	CRADIEN.	0 0		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5 6:5.	00336	0 000	9.000	. g	† () () () ()
		OZ K	2	BN/L .	5.24 SRA	GRADIENT ""ERVA	VAL5.00	5 33		
104	BF 1.		1 5		CYN	95 85	۲۷۵	J6\0	CARO	CABS
100 100	000 111		đị.		-,25190	05210	01910.	.034:0.	05320	CB630
) (F	329.6-		7 T		21850	05030.	. 39263	00200	04963	.08+30
N CO	-7 PES		3754		C19L1	CE:40.	06665	.01293	24870	.08050
) C	100		39265		- :2103	000000	.:3993	.01830	00040	07570.
	4		100 J		5-630	238:2.	026 	0.510.	34740	0.07540
) M	1 1 1	•	j.		01510	C 70	:: <b>∀</b> ::	.0:253	04140	06240.
	CPR -		3955		03840	05000.	1,12830	01830	0.54679	05690
0 0			39900		01460.	C7900	. 13110	.01300	09640.	05830
£06.	6 510		3851	·	. 14900	~. 52350	. 13680	. 01300	ე96+0.	0.04890.
£86.	9.850		37-6		. 19050	-, 02883	13743	.01333	.05070	009+0.
903	1, 980		3554	•	. 23230	04193	. 13620	.01330	.05080	.04700
506	-,330	•	. +086		-, 01410	05700.	18700	.318¥3	04740	04120.
! ! !	GRADIENT	-, 00201	E0:03.	304825	. 02361	02428	.00237	.00006	. 00020	E.00178

0.09450 0.09450 0.09830 0.09830 0.09830 0.09830 0.09830 0.09830 0.09830 0.09830

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CABE 10710 1

				375	*#* 622 (	IAIZSI CAUNK	MSFC "H" 622 (IA125) CAUNCH VEHICLE, 74	24 OTS		(F.) NOO21	-	29 MAY 75
	REFERENC	ENCE DATA								PARAMETRIC DATA	: DATA	
* 256EF	5 6600.0695	50. FT XM	×	976.0000	X 50				AL PHA	-5.000	ELV-16 =	.000
LAEF = BREF =		ES ES	YMRP = ZMRP =	.0000 400.0000	90 IN. YY 90 IN. ZT				ELV-0L =	B00.	ELV-1R .	.000
×. *! € .	3 * 73 3	ě			i		100000000000000000000000000000000000000	<b>V</b>	<b>u</b>			
		<u>\$</u>	È.	o n	- 7/5		אַסובאַן יאיבא					
¥CH		3	Ü	•	ç	ž	96	CAF	CABO	CABO	CABS	CABE
2		-1.21610		48700	66250	28730	.05960	.18160	.01750	. 06660	. 09760	.10280
1.047	-10.000	-1.20110		49310	54140	24363	. 25760	. 19090	.01750	.06550	. 09380	. 10-69
1.047	-7.540	-1.18830		49920	141400	0-361	04530	. 20150	.01660	.06320	.10370	. 10310
1.047	-5:60	-1.17350	·	50100	. 29230	04751.4	.03210	.2:030	.01610	.05:30	.10280	. 10290
1.047	-2.800	-1.17250		.50800	:6950	9900	.01980	.21600	.01560	.05930	04660∵	.10330
1.047		-1.18660		.52030	. 04 ' 53	01650	0:0:0	.22110	.01540	.05850	08560.	10:40
1.047	1.950		·	49980	28-50	0.04510	. 90130	. 23550	.01540	0.659+0	.08700	06860.
1.947		-1.147:0		.4884C	- 21133	.10730	05500"-	.23780	.01600	06090	.07850	.10050
1.057	6 730	-1.179:0		.50283	- 33630	.16300	-, 02550	. 24960	.01579	.05390	. 06590	.10080
1.047		-1.19273		0666h	0.45570	.21:50	03840	.24030	.01619	.06120	. 05230	0793
1.047	11,450	-1.20240	Ţ	0L164	56870	.25220	34950	. 23420	.01620	.06160	.06:50	10790
1.0		-1.18400	•	51870	05820	0:380	.00500	.22150	.01540	. 05880	.09570	.:0250
	GNAD! ENT	.00437		. 00329	05335	.02598	00+1₽	.00336	.00005	.00020	00304	7.00045
		25 85		129/0	FN/L -	6.63 GR	GRADIENT INTERVAL = -5.007	VAL = -5.	00/ 5.00			
HA.	BE 1.A	8	r S	<b>T</b>	გ	Š	ಕ್ರ	CAF	CNBO	CABO	CABS	CABE
1.198	-12.790	-1.40240	•	55050	.69850	28330	01770.	. 20150	.01790	.96810	04560.	. 09950
.1		-1.37760	•	55100	.57760	24070	.06150	.20590	.01750	.06650	. 09120	. 0969
<u></u>	-7.850	-1.35780	·	55000	04144	18793	04940	.20880	.01730	.06580	08160	. 09680
1.198	-5.330	-1.34440	•	55090	. 29340	12040	03140	.22140	.01790	.05810	.09230	.09750
<u>-</u>		-1.33640	•	55040	.16100	06230	.01820	. 23210	.01730	.06580	05060.	. 09550
. 198		-1,33300	•	55230	0.620.	-,00293	.00870	. 24 390	.01610	. 06130	. 08450	. 09523
1.198		-1.33140		553:0	- 09500	04670	07000.	.25310	.01530	.05830	07770.	02460.
1.198		-1.3+080	•	55670	21390	. 10320	20970	. 25230	.01563	. 05950	.07230	. 10220
1.198	6.970	-1.35180	•	56000	36440	.16500	02590	01552.	.01550	. 05900	. 06490	.13320
1.138	9.5+0	-1 36780	٠	55820	51010	. 22139	04320	. 25700	.01613	.06120	. 05270	.:040
1.198	_	-1.30500	•	56190	63330	.26530	05720	. 25430	.01580	.05030	.06210	. 10640
86		-1 34040		56000	1	00200	2	00016	0.101.0	00000	00.00	0005
			•	,	, , , ,	000000	27.	PARTY.	000	Or one.	2000	•

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FAGE 6	( 27 YA		000.		CABE	.09100	. 07550	.06870	.35830	06650.	CS: FB.	.07200	.07800	0.07910	.08090	.08310	06520,	50100
FA	27 YAM 25 1 (5	DATA	ELV-1L • ELV-:R •		CABS	.07330	. 07260	. 27130	.05750	.06330	.05180	05550	.05130	04890	06840	CELTO.	.36163	0017!
	(R1N002)	PARAMETRIC DATA	.000. .000. .000.		CABO	.05110	01640.	.04780	62443.	0777C	.04350	.04310	04520	0.645.0	05940.	04820.	04350	.00008
			ALFHA . ELV-OL . ELV-OR .	07 5.00	CNBO	01340	.01290	.01260	.01:50	01110.	07110.	01:30	09110.	561:0.	0:250	0.510.	01,10.	20000.
ź.	5.0 +			AL5.00/	CAF	.25370	.25330	. 27640	28+30	. 2891.0	29280	29743	C+EEZ.	. 29390	0.552.	29763	. 29230	1,000.
MSFC THT 622 (1A)25)	MSFC 7WT 622 (IAI25) LAUNCH VEHICLE, 74 075			GRADIENT INTERVAL .	SP	.08150	0.5550	04960	.03+30	32043	02820	-, 00090	01480	-, 02940	0.04810	26240	08000.	-, 33458
	AIRS) LAUM			6.48 GRJ	Z C	27750	23030	17840	~.12530	06730	01040	001+01	0.69943	5-5-1	. 20020	24243	-, 21130	5555
TABULATED SOURCE DATA,	"HT 622 (!		976 0000 (N. XT .0000. 77 VI 0000.004	PN/L	Շ	.67140	. 55900	04554.	.29300	.15390	03310	08693	21873	34343	0111.	593 <sup>-</sup> 0	03370	05:52
TABULA	JSF.		976 0.00+	133/ 0	r T	.52570	.51970	51560	51290	20115.	50:15.	.5:000	.5:350	State	52270	.52790	51140	F5000.
		SE DATA	HES YMBD	P. NO.	Š	-1.28550	-1,26670	-1 25500	-1 24730	-1.24123	-, 23650	-1 23+80	-: 24463	-1.25390	-1.2692.1-	-1.28473	-1.23570	30935
ž,		REFERENCE	2690.0000 SQ. 1290.3000 INC 1290.3000 INC		6E 7.A	-12.740	-10.340	-7 830	-5.3+0	-2.900	00± 1	2.0 €	4.500	€ <b>6</b> 6	9.5,0	1.1 873	_ 39C	GRADIENT
DATE 06 OCT 75			SKEF = 1 BREF = 1 SCALE =		MACH	1.461	1.461	1.461	1.461	1.461	194.	1.46!	1.4E1	1 461	 	 •	1 461	

TABULATED SOURCE DATA, MSFC TWT 622 (TA125)	
i6 OCT 75	

3ATE 86 OCT 75	2C 7.5			TABLE	TABULATED SOURCE DATA,		MSFC TWT 622 (1A125)	A125)			PAGE	t.
				<b>FS</b>	THT 622 (	IA1251 LAUN	MSFC THT 622 (14125) LAUNCH VEHICLE, 74 OTS	74 015		(R1N003)	3) ( 29 MAY 75	- 55
	REFERENCE	ENCE DATA								PARAMETRIC DATA	; DATA	
SCALE *	2699.6000 50. FT 1290.3000 INCHES 1290.3000 INCHES .COMO		AMED AMED	976.0000 .0000 .0000	.0000 IN. XT .0009 IN. YT				ALPHA ELV-OL ELV-OR	000.	ELV-1L =	000.
		ş	PCN NO.	123/ 0	- L	A. 92	GRADIENT INTERVAL -	VAL = -5.00/	00/ 5.00			
HAN.	<b>₽</b>	Š		ı d	Շ	Š	<b>18</b> 5	CAF	CNBO	CABO	CABS	CABE
965	-10.930	14890	ō	.06860	43370	18280	0.06070	.08390	.00870	.03330	.07150	.09180
865	-8 870			.07120	.35320	15420	. 05240	.09250	.00830	.03:60	06690.	. 08860
596	-6.693		õ	.07520	.26483	11790	04040	.100+0	.00789	. 02990	01790.	.08310
598	-4.550	15670	ç	.07760	. 18270	08230	. 02920	01801.	07700.	0.02940	. 06480	. 08630
. 598	-2.430		ē	.08020	07790.	04450	.01620	0.10970	06,000	03010	.06350	07870.
. 598	290		ō	08:00	00630.	00310	.00450	01611.	0.800.	. 03090	.05800	.07340
. 598	1.820		č	07770.	05850	.03230	00540	. 12290	. 00820	03140	.05540	.07+30
. 598	3.950		c	.07383	:4730	.05730	01559	. 12850	.00850	.03260	.05130	07770.
558	060 9		0	.05639	23190	.10590	02970	. 12280	.00892	.03410	0.60.0	.08430
598	8 250		ė	.06550	3:590	01141	04140	.11420	. 00920	.03510	04810	. 09320
. 598	10.280	15580	Q	.06510	3992C	0446	05250	.10900	02600.	.03540	.04720	.09720
.598	- 330	06091	ပ္	09673.	02410.	00540	. 00500	. 12110	00800.	.03060	05730	.07300
	GRAD! ENT		,	-,000%	03898	.01769	00537	.00254	60000.	. 20036	00165	00045
		RCR.	PCR NO.	122/ 0	PN/L	6.23 GR	GRADIENT INTERVAL .	VAL5.00/	00/ 5.00			
1	96.14	3		1	ò	Š	CBL	ζ¥	CMBO	CABO	CABS	CABE
906	-11 680	- 12580	Ö	04270	. 52030	22790	01570.	.12080	.01120	.04270	C7870.	. 09320
906	-9.460	11380	9	.03730	.42160	18970	.05270	. 12930	06010.	.04160	.07530	04160.
906	-7.140	10290	0	.03400	.3:880	14540	. 04850	.13720	01030	03840	07570.	.08730
906	-4.850	10240	0	.63340	. 22219	10500	.03420	.14250	.01000	.03830	.06830	.08340
906	-2.600	- : 10250	0	.03463	. :2:30	05830	.01790	.14630	09600.	.03860	. 26320	.07820
909	320		5	0.03670	.01180	00240	.00280	.14670	0*630	.03580	.05910	00440.
906			و	.02620.	09220	07640.	01109	.15380	08600.	.03740	05+30	.07630
906	4.190	10260	9	03010	18430	06:60	02410	.15700	.0100	0.3810	.05010	.08180
906	6.450	10990	ပ္	.03400	27723	. 13280	03730	. 15810	0.010.	.04070	.04870	.08750
906	8.750	12:10	0	.03980	37210	.17320	05170	15980	.01130	.04290	ତ-8÷0 .	08080
906	10.920	13340	0	.04539	-,46+70	.21010	06500	. 16000	01170	U 3 3 3 5 0 .	.04760	09180.
906	330			.03860	0:610.	007E	. 00360	14510	0,600	.03630	01650.	05570.
	GRADIENT	00005		00052	04536	. 02227	00643	.00160	.0000	-00005 -	00198	00023

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DATE 06 OCT 75	2C 7.5		TABUL	TABULATED SCURCE DATA.		45FC THT 622 (1A125)	A125)			PAGE	<b>6</b> 0
			Æ	C *WT 522 (	MSFC TWT 522 (IA!25) LAUNCH VEHICLE,		5:0 +4		(RIN003)	3) ( 29 MAY	, 8¢ >
	REFERENC	MCE DATA						u.	PARAMETRIC DATA	DATA	
SPEF - BREF - SCALE -	2690.0000 SQ. 1290.3000 !NC 1290.3000 INC	O. FT XHRP NCHES YHRP NCHES ZHRP	976	7X .NI 0000 1N. XT .NI 0000 .000 .004				ALPHA = ELV-OL = ELV-OR =	000.	ELV-11 ELV-1R .	. 963
		PUN NO.	. 120/ 0	<b>%</b>	6.5¥ GRA	GRADIENT INTERVAL .	VAL5.00/	0/ 5.00			
MACH	9£7A	Š	#JO	ć	CAN	<b>18</b> 2	CAF	CMBO	CABO	CABS	CABE
<b>ል</b> ል	-12.070	- 14360	01870.	98175.	1. 2500gc	09120	05555	00*10.	. 5320	09060.	.10090
<b>€</b>	-7.340	12380	07050	34170	15710	05920	0.63%	.0:220	. 04662	. 08680	06060.
1.00	-4.97C	13320	06:90.	.23450	1,11250	.04150	.25080	.01230	04579.	08580	.08880
7. 3 7. 3	-2.660	14170	09880	. 12930	06360	05890.	CTAGE.	01170	. 04450	C8480.	08970
Ž.	310	55.50	0.1860.	0.1940	0	00000	. 25350	. o:::00	08240	. 08050	. 08790
í i	) ) ) (	5 G 7 7 7 1	30 <b>389</b> 0.	3:000		310 C 10 C 1	25535.	01.170	. 04473	07630	04780. 04080
<u> </u>		058	.08120	04252 -		00040	26710	00110	01010	2880	01400C
1.054	360.6	-7.3750	07570	-,39670	1138	26372	.27230	.01310	.05000	. 05193	0.250.
1.25	11.290	7,15,30	. 38053	50560	51815.	07783	.26380	068:0.	.05290	04:90	.09650
1.00.1	310	14830	027780.	. 02090	0:223	.00530	05842.	.01:52	.04390	07:80.	٥٣٥٥٠٠
	GRADIEN*	00086	. 99057	+, C451	25,87	00757	.00168	.00003	¥1000.	00163	.00003
		25 X	. 1217 0	RN/L .	6.64 GRA	GRADIENT INTERVAL + -5.007	YAL5.0	07 5.00			
MACH	#£7A	ટ	r U	Շ	Ų.	ä	CAF	CABO	CA90	CABS	CABE
1.199	-12.350	16260	0.07020	.57430	22990	0:160.	.26020	.01300	0.640	06080	. 09720
- - -	0 <del>-</del> 6.9-0	14780	. 26550	00444.	17770	.07380	.26900	.01300	09640.	. 07960	. 09240
1.199	-7,469	1.14420	, 07020	. 32560	13250	.05730	.27760	.01279	.04830	.07800	.08620
86	-5 040	14260	07360	.21093	06480	. 03850	£7875.	.01230	.04700	.07760	.08500
1.199	2 <b>69 </b> 2−	I421C	.07450	.11030	09450	. 02050	.28020	.01183	.04550	.07520	. 08430
1.198	300	-, 15040	.08330	. 30553	.00150	.00320	.28290	.01130	.04290	.07210	01480
1.199	C10 &	14280	.07543	09010	01440.	~.01290	.28570	.01:90	. 04520	. 07020	04680.
1 99		-, 15040	.07900	-, 18350	. 08050	02910	. 29020	.01193	04240	.06470	. 09060
561	6 780	14760	.0694	+.29473	.12730	04760	. 29090	.01280	.04670	.06:70	.09350
661	9 220	15500	. 06950	40590	. 16780	06400	. 28810	.01310	. 05000	0.05940	.09570
1.199	11 570	15990	.06450	52640	.21280	0.07970	. 28240	.01360	.05180	. 06060	. 09790
<b>26</b>	. 300	150:0	.08:80	.00550	. 00 : 30	.00300	.28170	07110	. 04350	01210.	. 08520
	GRADIENT	0000-	.00023	04170	.01782	00703	00140	,0000°.	. 00015	00155	.00103

MSFC THT 622 (1A125)	THT 622 (1A125) LAUNCH VEHICLE, 74 015
TABULATED SOURCE DATA,	MSFC THT 622 (1A125)

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				Ŷ	FC THT 622	(1A125) LAU	MSFC THT 622 (1A125) LAUNCH VEHICLE.	74 07S		(R1N003)	-	29 MAY 75 )
	REFERE	RENCE DATA	۲,									
2965	2698, 0300	9	9		:					PARAILE IN IC	A NA	
. ACF		MOKES		0 ·	74 . WI DODO . WT				ALPHA .	000	ELV-IL .	000.
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		er.	<b>ያ</b> ያ	0 / <b>%</b> [	• 7/Ng	6.42	GRADIENT INTERVAL	TVAL5.00/	90. \$.00			
MACH	BETA	3		r E	ò	3	ğ		,			
1.458	1 -12.380	1459(	590	.05160	.58510	9.19	נפניס	<b>4</b>	08 <b>%</b>	CABO	CABS	CABE
1.458	-19.030	- 13120	120	04070		0000-	018810	.06530	04110	.04330	.05570	.07570
1.458	-7 550	12590	590	04840	0.054	12001	00:70.	67500	01010.	04040	. 06430	.07310
58		•	500	95270	200.0	00857	08400.	. 28170	020:0:	.03880	. 06320	0.690.
1.458			583	יי ה הייני הייני	0 1	DECENT.	35650.	. 28 <b>3</b> 20	0.00970	.03710	.06220	. 06933
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1.458		•	Ş		27.00	35000	06500.	. 28930	. 0860	. 03270	.05750	. 96572
1.458			0 6		0.00	poeso.	01010	. 29530	02600.	.03493	011GO.	.06370
1.458	6.00			00000	2///-	. 07090	02643	34962.	. 00950	.03630	05470	0.000
1,458			) (	00000	CD #84	. 11633	04350	. 29670	06600.	.03750	51.70	00000
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9 4	2/0	30/91/4	a (	04780	53300	.21550	07770	69463	080:0	0.0	ירפיוס.	00000
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	21046	<b>8</b> 6000.	B60	DVC30	04055	.01529	03526	60:00.	00000.	10000.	on and a	מימנט.
		ĺ									9	D
		æ'	ار الا	191	- J/kg	5.28 SRA	SRADIENT INTERVAL	/AL = -5.00/	20.60			
MACH	<b>BE 1.A</b>	Ž		į	;	į						
2 740	-11130	0	C	1000		2	3	CAF	CABO	CABO	CABS	7485
2.740	000 8-	. הייי היייי	9 5	37700.	05.65	20230	. 05953	. 25530	. 25470	.91780	08780	61967
0.75	0000			3900	. 3980c	158:0	.04730	. 25229	08400.	0.830	מטשלט	01010
י ת כזר	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	n .	: ·	្ត ស្រា ស្រា ស្រា ស្រា ស្រា ស្រា ស្រា ស្រា	. 28650	1.11540	. 03490	0.645.	.00470	0:010.	חפריה	0,000
74.0	051.4	0 1	8 8	0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	19000	07540	. 22263	.24840	.00469	97710.	07750.	י מיניה מ
			ה מים	ים מ מ	.10170	03970	07110.	24845	. 32463	OBLIG	02750	0,000
2 2	) (C		υ (	C) t t t)	01340	00310	.00230	.248€3	07400	0.870	12550	0.000
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בייר בייר		C06 : 1 -	0 1	08130	:5720	. 05530	01693	.25580	00470	Cidio	02510	
9 0	000	0/11/	Ď,	.05853	25190	.10400	- J2973	.25983	02450	0.00.10	01000	05050
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D ( )	11.080	- 12590	Ç	31363	45510	. 19753	05413	26.52	0400	0.00	05510.	.03140
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				£	SFC THT	622 11	A1251 LAUN	MSFC TWT 622 IIAI251 LAUNCH VEHICLE, 74 075	7 07s		1814004)	T AVE 52 ) (4)	>
	13±3br	RETERENCE DATA	< 4								PARAMETRIC DATA	DATA	
	2690.0000 SQ FT	SQ FT	d di	17.6	976.0000	\$ \$ 2 2				ALPHA =	5.000	# # CT - A - A - A - A - A - A - A - A - A -	
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		Æ	PEN NO.	3 /2/31	-	PN/L	\$ \$	GPADIENT INTERVAL =	VAL = -5.00/	5.00			
MACH	1 BE 7A	ર		<b>*</b> 70	5		CYN	<b>18</b> 0	C.A.	CNBO	CABO	CABS	
596	068 01 - 10 830	3 . 46440	0,1	:5110	_	04914	18000	. 09260	.05160	.00810	.03100	.06790	
<b>5</b> 5.	6 -8.830	_	990	-, 15300		05753	- 14090	.07029	05440	. 00 770	. 02930	.06610	
.596	6 -6 650	•	0.00	:6043		.23310	09823	. 05130	. 07030	.00810	C8320.	01+50.	
8	5 1- 5to	082947	693	14330		5440	26563	03240	08490	.00730	05750	.05530	
596	ųγ		330	13850		32420	03253	. 018 <sup>4</sup> 0	07170.	.00710	.02750	. 06350	
556	075 - 870	45390	390	-, 13460	•	. 00103	55535	.00280	.08110	06930.	. 02920	. 05000	
969			.50	007711	'	07410	.03032	01330	. 28450	.30740	.028:3	05740	
55	5 3.953		262	15550		:4510	05030	02850	066LO.	07700.	C2950.	.05593	
1998	9		51.0	C6 <b>2</b> 91 -		2593	35560.	0.040.1	06770.	06-06.	.03000	.05+50	
553	œ		33	٠٠٠.	•	30850	13183	36:59	01750.	CEBCO.	03520.	.05590	
985	65 10 270	08064 (	283	13 ACT -		.39.60	1,6591.	07640	.05463	.02850	.03220	.05560	
535	5 - 273	35254, (	ي <u>ر</u> ز	33783		03223	03::50	. coeso	0.876	04/00	0.880.	.05:50	
	GRADIENT	•	56	74:C0:-		03519	.o. fe	00750	.00206	.00000	. 20023	00108	

CABE .08250 .07750 .07510 .07510 .07510 .07520 .07190 .07190 .07310 .073310

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DATE 06 OCT 75	2C 7.3S		TABUL	TABULATED SOURCE DATA.		MSFC THT 622 (1A125)	1831			PAGE	51
			¥	C THT 622 (	IAIZSI LAUNC	MSFC THT 622 (18125) LAUNCH VEHICLE, 74 075	74 075		(R)N004)	14) ( 29 MAY	. 85
	PRE FERE	REFERENCE DATA							PARAMETRIC DATA	DATA	
SPEF LREF BREF SCALE	2690.0000 S 1290.3000 1 1290.3000 1	SQ. FT XMRP INCHES YMRP INCHES ZMRP		976.0000 IN. XT .0000 IN. YT .000.0000 IN. ZT				ALPHA . ELV-OL . ELV-OR .	. 000 . 000 . 000	ELV-1L •	000.
		RUN NO.	. 136/ 0	· ./	6.48 GRA	GRADIENT INTERVAL .	/AL5.00/	9.00			
MACH		ટ	£	Շ	C	평	CAF	CABO	CABO	CABS	CABE
1.456	12.390	.68380	26930	.55390	21250	.08220	.23810	.01:63	00440.	.06500	. 06520
1.456		.676:0	25710	.43350	16680	.05680	. 25130	. 21:00	06140.	. 05260	.06470
1.456		.65390	23210	.31530	12220	.05200	. 26550	04010.	.03960	.06110	. 06410
1,456			21200	0.4000	07950	.03710	.27530	08600.	.03750	.05850	.06150
1.456		·	20150	10430	04050	01970	.27750	C+600.	.03590	0.8840	.06050
1.456			20380	.00350	04100	.00150	.27670	00800.	.03420	05810	.06050
1.456		•	20370	09460	.03780	01600	07775.	. 00893	03410	.05590	.06290
1.456			21620	19480	027730	0.480	.27830	. 00950	.03610	.05540	. 06259
1.456		•	23890	30230	.11830	096+0'-	.27570	01010.	.03860	.05480	04490.
1.456			26160	41280	. 15790	06220	. 26540	01010.	. 04060	.05460	. 26540
1.456		.70650	28030	-,53050	.20240	07520	.25490	.01130	.04323	.05560	. 06990
1.456			20280	.00539	00270	.00170	.27730	06800.	.03410	.05780	.06370
	GRADIENT	.00280	-,00185	04177	.01647	00751	£1000°	10000	.00003	00047	.00335

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DATE 06 OCT 75	CT 75			TABULA	TABULATED SOURCE DATA.		MSFC TWT 622 (1A125)	A125)			PAGE	E.
				HS.C	TWT 622 (	14125) LAU	MSFC THT BER (1A125) LAUNCH VEHICLE, 74 OTS	74 OTS		(R1N005)	15) ( 29 HAY	. 27 -
	REFER	REFERENCE DATA								PARAMETRIC DATA	: DATA	
. 38Er	2690.0000 SQ.	Ŀ	XHRO	976.0000	000 IN. XT				BETA .	.000		.000
LAGE .	1290.3000 INC	E ES	7148P	.0000	.0000 IN. YT				ELV-OL • ELV-OR •	.000 .000	ELV-IR =	000.
SCALE .	0. 10. 10.	Ş	₹.	ķ	RN/L .	 	GRADIENT INTERVAL -	WAL5.00/	0/ 5.00		,	
HQ4	AL PHA	3		¥,	Շ	N.C	턵	3	0 <b>6</b> %	CABO	CABS	CABE
Š	-11.710	•	20	.36310	.09280	00370	00100	. 09030	0.600	.03690	.06580	06001.
86	-9.580	·	90	30430	.00580	00380	.00020	04660.	05600.	0.03640	. 06250	00880.
595	-7.320	56460	90	. 24550	.00250	00180	00020	.10070	. 00950	.03610	.05950	. 09520
295	-5.160	01524,- 1	ŏ.	.20020	00190	.03150		01111	02600'	.03200	.05720	.08770
595.	-2.940	32170	70	. 15070	20310	38000.	00180	. 11360	06800.	03400	.05830	.08380
595	700	•	90	03601.	00730	. 00290	00290	. 10830	00800.	. 03430	.06110	.08320
595.	1.460	08380	80	.06840	0.4200	06200.	09330	. 10800	. 00850	.03250	.059+0	.08190
595	3.690	. 04390	06	.02540	01230	06400	00450	.10210	. 00860	.03260	.05950	. 08053
595.	3.9.0	05171		01750	n1190	.00350	02+00*-	.09520	01800.	.03100	. 05880	.07760
.595	08.180	. 29930	-	06190	01590	.00280	00640	.08390	.00800	.03070	.06220	.07600
566.	10.230	1 .41360	. 09	11130	02050	.00630	00720	.07230	.00790	.03010	.06:60	. 07450
595	710	0-661	ç	. 10830	00963	01400.	30293	01111.	.00880	.03350	. 06060	. 08220
	GRADIENT		<u>.</u>	0189!	00126	.00056	00039	00158	00008	00027	.00008	00049
		Ş	PUN NO.	6 /2	FN/L .	6.51	GRADIENT INTERVAL5.007	WAL5.0	0/ 5.00			
MACH	AL PHA	3		F J	ò	CYN	නි	C.A.	CMBO	CABO	CABS	CABE
106.	-13.310	-1.04970	92	06444	00640	.00530	-,00050	. 12930	01210.	.04820	00690.	03660.
106.	-10.870	•	96	.35650	00590	.00520	00120	0366	.01180	06480.	0.0890	00960
<b>106</b> .	-9.360		90	.27990	00860	. 00520		. 14020	.01130	.04290	06430	0.09240
106.	-5.870	06+74	8	.20470	01190	.00750		. 14320	.01050	01040.	. 06030	.08740
106.	-3.410	•	ç	. 13380	01430	.00850	•	. 14280	.01000	. 03830	.05880	. 08320
.901	-,980	14740	ç	. 0566.0	01650	06200.	·	060+1.	.01020	.03900	. 05130	. 08260
.901	1.410	.01160		01210	02230	01110.		. 13930	08600	. 03750	04090.	26080.
-06	3.810	. 15240	_	06790	02750	.01340	•	. 13660	.00930	03220	. 06020	.07790
106.	6.260	. 28450		10170	03170	.01530	-	. 12870	.00970	. 03690	. 06520	. 08130
<b>6</b>	8.720			14140	03440	.01480	•	. 12290	0.600.	.03600	.07180	.08020
.90	10.950	.55310		19280	03810	.01500		.11740	.00950	.03610	.07050	07510
.901	970	•		,05880	02280	.01150	•	.14570	08600.	.03740	0.000	07970
	GRADIENT	60+90		02802	00189	₩.000.	00011	00081	00010	00041	100A	00073

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MSFC THT 622 (IA125) LAUNCH VEHICLE, 74 0TS

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2000,3600 SQ. FT 1290,3000 INCHES 1290,3000 INCHES .00%0

SCALE SCALE

REFERENCE DATA

PARAMETRIC DATA

ELV-1L 0 **BETA** ELV-OL ELV-OR

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-5.00/ 5.00 GRADIENT INTERVAL Ĭ 72/ **3 3 5 6** 

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- 04480 CAF 23570 23570 255010 .01**600** .00950 . 97336 - 97336 - 97336 - 74526 - 19760 - 19760 - 19760 - 19760 - 19760 - 19840 - 19840 ALPHA -14.370 -11.669 -6.350 -3.760 -1.200 11.130 -1.170 ORADIENT 

GRADIENT INTERVAL

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CY --00100 --00550 --00850 --01300 --01700 --02030 --0 .53860 .42090 .31900 .22790 .14890 .07490 .07490 -.11890 -.18260 .722460

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CN -1.29130 -1.00970 -.33170 -.13350 -1.1460 -1.1580 -1.7580 -1.7580 -1.7580 -1.7580 -1.3580 -1.3510 -1.3510 ALPHA -15.070 -16.230 -5.060 -3.900 -1.250 1.310 8.980 11.390 -1.200 -1.200 8.980 11.390 -1.200

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CABO .05930 .05420 .05190 .04330 .04330 .04330 .04330 .04300 .04330

CN80 .01560 .01460 .01370 .01370 .01130 .01130 .01150

CAF 28-320 28-420 28-420 27-330 27-330 28-59-40 28-59-40 28-59-40 28-59-40 28-59-40 28-59-40 28-59-40 28-59-40 28-59-40 28-59-40 28-59-60 28-50 28-50 28-50 28-50 28-50 28-50 28-50 28-50 28-50 28-50 28-50 28-50

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DATE 06 OCT 75	ž Š			2	IBULAT	TABULATED SOURCE DATA,		MSFC 14T 622 ((A)25)	ŝ			PAGE	m Ñ
					#SEC	TWT 622 (1	A125) LAUNC	MSFC THT 622 (1A125) LAUNCH VEHICLE, 74 OTS	74 OTS		(R1N005)	5) (29 HAY 75	1 ST Y
	Œ	REFERENCE DATA	DATA								PARAMETRIC DATA	DATA	
SKEF SCALE	2690.0000 1290.3000 1290.3000	g <u>≥</u> ≥	FT XMAP		976.0000 1N. .0000 1N.	.0000 IN. XT				BETA ELV-OL ELV-OR		ELV-1L • ELV-1R •	000.
			RUN NO.	0. 136/ 0	0	RN/L =	6.45 GRA	GRADIENT INTERVAL	/AL = -5.00/	0/ 5.00			
HACH	7	ALPHA	8	ğ		Շ	Š	<b>ಪ</b>	CAF	0 <b>9</b> 45	CABO	CABS	CABE
1.461	<del>\$</del>		-1.23720	.51510	210	00350	.00270	. 00240	. 29690	.01130	.04310	.05920	.07290
1.461	-15		97110	. 39780	96	00760	06*00.	.00130	29530	.01090	04140	04090.	. 05750
19.	φ, c	0.7.0	72300	29120	120	00770	. 004BG	39000.	06460	. 01030	03930	05830	. 05550
	9 7	24.470	מפייטכי-	3000	ກ້ອ	01170	06900.	62169	00,000	01500	03480	. 05250	. 06350
	٠ ٦		:2950	.05630	330	01600	. 00852	02200	25475	00600.	.03450	04150.	.06340
1.461	-		.03279	00190	190	01970	.01030	00310	0.293.0	01600.	.03470	.05120	. 05420
1.461	3	4.020	.17653	05630	530	02090	.01020	00413	. 28950	01600.	.03480	.05290	06×90
1.461	9	6.570	.32560	11120	120	02320	.01120	00500	. 28690	.00890	.03400	04450.	01490.
1.461	6	9.150	.47629	16740	740	02380	.01060	00530	.28043	.00890	.03400	.05460	.05330
1.461	Ξ	11.660	.62520	20883	680	02730	0.010	00580	.27250	00600	.03+30	. 05650	.05340
1.451	ī	-1.040	12:80	02+00	000	01620	. 00850	00213	. 29520	00800.	.03440	.05:50	0-090
	GRAD!ENT	:ENT	. 05231	32307	307	00:21	. 00059	00038	50059	00000.	.0000	<b>,0000</b> .	8. <b>920 ·</b>
			PON NO.	0. 159/ 0	0	RN/L .	5.10 GRA	GRADIENT INTERVAL -	/AL = -5.00/	0/ 5.00			
MACH	Ž	ALPHA	8	CL		Š	Š	ස්	CAF	CMBO	CABO	CABS	CABE
2.740	-12	-12.150	74580	.29390	390	.000020	. 00080	.00070	. 28690	06200.	.01510	. 02540	.03:10
2.740	δį		6:430	.24120	120	+.00190	.00260	.00050	.27870	.00380	.01450	.02610	.03150
2.740	۲-		48510	. 19280	580	00230	.00310	00010	267±0	01400.	.01560	.02820	.03310
2.70			35510	01441.	01.	00700	.00590	00110	25840	. 00430	.01660	.02570	. 03320
2.740	•		23520	. 10150	150	00390		. 00020	.25270	00420	.01720	.02520	.03200
2.740		690	12870	. 06890	393	00720	. 00520	00063	0000%	00420	.01730	.02550	. 03000
2.740		. 560	03260	06040.	390	00670	.00460	00080	. <del>2</del> 4630	. 00460	.01750	.02550	. 02920
2.70		3.820	.07220	0,000.	5	00940	. 00550	00150	.24330	. 00450	07/10.	.02510	04820
2.740		6.120	. 18520	03880	960	00820	.00430	00140	.23910	.00460	.01760	04450.	. 02750
2.740		B.430	. 30240	08140	9	00860	. 00320	00150	. 23630	.00470	.01780	07720.	. 02650
P. 740		_	. £2466	12730	730	01180	.00430	00240	. 23320	09400	.01750	064.20	. 02560
2.740	•	_	17330	. 06250	20	00680	. 00500	00070	. 25080	.00450	01760	.02540	. 02950
	GRADIENI	1EN1	96110.	01463	63	1,000	. 00025	00025	00137	00000	+000g-	00001	1.0000

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HSFC THT 622 (1A125)	
ABULATED SOURCE DATA, MS	
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DATE 06 OCT 75	

MSFC THT 622 (1A125) LAUNCH VEHICLE, 74 075

1 29 MAY 75 J PAGE

(R) N006)

	TO ENGINE	ME DAIA							PARAMETRIC DATA	DATA	
SPEF = BREF = SCALE =	2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES	), FT XHRP KHES YHRP KHES ZHRP		976.0000 IN. XT .0000 IN. YT .00.000.000 IN. ZT				BETA ELV-OL ELV-OR	. 000 5. 000 . 000	ELV-IL = ELV-IR =	000.
		RUN NO.	. 76/ 0	RN/L -	5.18 GRA	GRADIENT INTERVAL .	VAL = -5.00/	0/ 5.00			
MACH	ALPHA	3	C.	ć	CYN	CB.	CAF	CNBO	CABO	CABS	CABE
965	11.690	81270	.32350	.00470	00190	00050	07160.	06600.	.03770	. 06920	07760.
56		66580	.25680	.00110	06000	.00770	08780.	00900	.03680	. 06520	. 09520
.59 86	_	52340	.21070	.00210	00130	.00750	.10320	0+600.	.03590	.06160	.09130
.598		41270	. 16660	00460	.00200	. 30580	.11260	. 20930	.03530	. 05930	. 68450
.599	-5.920	28309	.11830	00780	07500.	06+00	.11233	. 00920	.03510	. 06050	.08130
.599	9	-, 15960	0:4.0.	01430	.00700	.00370	.11160	00600.	.03420	. 06120	.07390
.599	1.490	03830	.03020	01850	.00860	. 00290	.10760	0.00870	.03310	.05980	.07883
.599	3.730	.09590	01740	01940	.00320	.00200	. 10310	.03870	.03310	. 05980	04270.
.599	5.980	.22330	+.05890	02239	00000	.00500	.09580	.00850	. 03230	0.05970	0.07549
599	8.240	.35920	10793	02400	00660.	.00190	.08510	.00810	.03110	06030	.07320
. 599	10.290	.47663	15940	02653	.01020	. 00:30	.07250	. 20920	.03130	0.05240	.07320
599	693	15450	.97093	00990	04400.	.03460	.11320	00600.	.03420	.06100	.07990
	GRAD1ENT	.05730	02038	00177	. 00068	000+3	00143	00008	00032	00016	00066
		RUN NO.	0 /11 .	RN/L =	6.56 GRAI	GRADIENT INTERVAL =	VAL = -5.00/	0/ 5.00			
MACH	ALPHA	ટ	CLA	Շ	Z.	95	CAF	CNB0	CABO	CABS	CABE
<b>.</b>		-1.01970	.41230	00860	.00630	.03760	. 12920	.01290	.04920	.07420	08660.
₹6,	•	80620	.32190	00710	0.00640	.00690	. 13700	.01190	04240.	07570.	05+30
₹6.		69750	. 23760	01240	.00870	0.00240	. 142!0	.01120	.04280	0.890	08080.
<b>₹</b>		42910	. 16540	01520	.01030	.00430	. 14483	01040	.03970	. 06230	. 08530
<u>.</u>	-3.350	26730	09860	02190	.01420	.00260	14370	.01030	.03920	.06220	.08323
<u>\$</u>	920	10530	. 02403	02580	.01590	. 00050	. 15000	. 00960	.03650	05650.	.07670
<b>6</b> .		04770	04070	02840	01710.	00:10	. 13890	. 00990	.03780	0.05040	.07980
<b>8</b>	3.850	. 18230	09180	33080	.01720	00123	. 13623	09600.	.03680	. 06130	.07810
÷06.		.31180	12150	03230	.01600	00110	. 12990	.00970	.03710	.06480	.08020
.90	e.770	.45+80	16710	02960	.01230	00130	. 12780	09600.	.03650	.07130	01620.
<b>5</b> 6,	11.000	.50450	21880	02880	01010.	00:30	. 12150	0.00970	.03700	04070.	. 37430
<b>6</b> 6.	920	09940	.01930	02320	.01440	00100	. 14483	01010.	.03840	.06050	.07960
	11101000		64360		1:000						

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				121 622							
			¥		IAICO LAG	MSFC TWT BGZ (IAIZS) LAUNCH VEHICLE, 74 0TS	74 OTS		(R1N005)	(5) ( 259 MAY 75	× 75 .
	REFERENC	ENCE DATA						-	PARAMETRIC DATA	DATA	
SWEF .	2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES .0040	SQ. FT XHRP INCHES YHRP INCHES ZHRP	976.0000 - 0000 - 400.0000	976.0000 IN. XT .0000 IN. YT 400.0000 IN. ZT				BETA ELV-OL ELV-OR	.000 5.000	ELV-IL . ELV-IR .	000.
		RUN NO.	0 /6/	RN/L .	6.82 98.	GRADIENT INTERVAL -	WAL = -5.00/	0/ 5.00			
MACH	ALPHA	3	2	ઠ	CYN	<del>හ්</del>	<b>5</b>	CNBO	CABO	CARS	7486
1.048	3 -14.200	-1.17020	.50890	01440	00510	06600.	. 22056	01510	.05860	09150	10320
1.048	•	91910	.39930	.91020	00400	04800.	.23370	.01380	.05250	04260	.09833
- 948 - 948	9-8-960	69670	.30480	.00670	00280	04,000.	.24320	.01270	.04820	.08790	09580
1.048		50150	. 22680	.00220	00:30	.00580	.24910	01210	.04600	. 08340	. 08830
- 948		32710	. 15800	00170	.00100	.00510	.25330	.01:30	.04310	.07990	04480
- 0 - 0 - 0	•	16050	00%60.	00700	. 00330	00400	.24780	.01120	.04260	. 08150	.08470
- 24 - 24			. 02080	-,00880	.00430	. 00340	.24530	.01130	.04320	.07870	. <b>08</b> 420
₽. -			04950	0!140	06+00	. 00250	.23770	07110.	.04450	.07970	.08320
0 <u>+</u> 6			11180	~.01340	.00500	. 00020	.23510	.01120	.04260	01910.	0.080
- 048			16000	01740	.00560	00090	.22200	.01150	. 04390	06*80.	0.870.
 		. 59020	20770	01633	.00190	. 00000	.21460	.01180	06440.	. 08640	.07450
- -		15750	. 09500	00570	.00230	04400.	.24600	.01140	.04330	.08210	. 08550
	GRADIENT	.06478	02799	00125	.00051	00034	00199	.00005	61000.	00013	00019
		RUN NO.	78/ O	RN/L -	7.00 GR/	GRADIENT INTERVAL = -5.00/	VAL = -5.0(	0/ 5.00			
MACA	ALPHA	ટ	2	Շ	CAN	CBL	CAF	CNBO	CABO	CABS	CABC
1.199	15.000	-1.26850	.51810	. 00620	00650	.00870	.≥+000	.01610	.06120	.08770	0660.
<u></u>	12.190	98970	.40230	. 00050	00180	.00750	.25640	.01500	. 05690	01680.	. 09550
- 198		73340	.29910	00250	. 00020	.09520	. 26220	.01390	.05310	.08610	. 09200
- 199		51100	.21020	00340	04000.	04400	. 26690	.01310	.05000	.08280	.09070
- 199		31060	. 12980	63840	.00280	.00290	.27380	.01230	.04680	.07990	00680'
<u></u>	•	12360	. 05740	01210	.00550	.00210	.27830	.01:80	06440.	02770.	.08670
<u></u>		.03560	00620	01460	.00550	.00060	. ?7520	.01150	.04390	075	.08+80
1.199		. 18750	67020	0:640	.00570	. 00000	.27030	.01150	.₽4380	OTHER	.08300
.199		. 35390	13300	01580	.00430	00080	. 26250	.01150	.04370	07870	.08150
<u></u>	9.050	. 50850	19450	01830	.00390	00140	.25150	.01180	.04510	.08160	.07820
- 198		.64570	23600	02440	. 00660	00300	. 24.250	.01170	.04480	. 08220	.07580
<u>-</u>	-1.150	11680	06500	0000	00:00						
	111		9	20110	07 500.	.00250	.27780	.01180	042.0	07770.	. 08660

第一个一个人,只是我们的一个人的人,我也有人的人的人,我们们是我们的人的人,我们就是这些人的人的,我们就是我们的人的人,我们也是不是我们的人,我们也是不是一个人的人的人,也是是我们的人,我们就是我们的人

DATE DG OCT 75	SC 736		TABU	TABULATED SOURCE DATA.		HSFC THT 622 (1A125)	A125.			30Vd	<b>6</b> 0
			£	FC TWT 622 (	(1A125) LAUN	MSFC THT 622 (IAI25) LAUNCH VEHICLE, 74 OTS	₹ 075		(R1N006)	16) ( 29 HAY 75	k
	REFERENCE	ENCE DATA						•	PARAMETRIC DATA	DATA	
• 1386 r	2690.0000		•	ž	<b>.</b>			BETA .	000	ELV-11 •	000.
	1290.3000 INCHES	INCHES ZHRP		TY .N1 0000 .004				ELV-06.	9. 600 000.	ELV-1R =	000.
SCALE .	0400.										
		RUN NO.	0. 137/ 0	- HAVL -	6.42 GR	GRADIENT INTERVAL -	WAL = -5.00/	00/ 5.00			
MACH	ALPHA	8	r F	Շ	Š	CB.	S.C.	CMBO	CABO	CABS	CABE
<b>194</b>	-14.850	-1.21970	.50040	00070	06000.	.00730	. 29360	.01160	.04410	.05930	.07180
±9¥∵1	,	955:0	. 38340	~.00390	07100.	.00500	. 29550	01110.	04240	.06070	. 06660
1.46±		70750	.27610		07100.	01500.	. 29540	04010.	.03970	02300	.05650
1.464			. 19120		01200.	.00330	.29510	09650	.03660	. 05650	.06490
1.464		29950	. 11600	•	0.00030	. 00220	. 29260	. 03930	.03540	. 05520	.06430
- <del></del>	•		.04820		.00430	.03120	06*62.	. 00920	.03500	. 5350	.05310
1.464			01150		. 30570	0:000.	.29470	02600.	.03510	. 05290	.06360
<b>49</b>			06610	•	. 00560	00060	.29120	. 00920	.03500	. 05450	.06470
1.464			12160		01200.	05:70	. 28800	00600	.03430	.05590	.06400
794.			17783		.00580	00210	. 28150	. 00893	.03410	.05700	.06270
1.464	11.660		218:2	02550	.00760	00290	.27500	00600.	03410	.05800	.06210
7.46	-1.0%0	11980	. 04550	•	.00370	. 00153	. 2952u	. 60920	. 03490	.05360	.06330
	GRADIENT	. 06275	02334	00131	. 20257	00037	00016	1.0000.1	-,00004	00011	01000.
		P.C. NO.	0. 158/ 0	FRV.L	5.10 GR	GRADIENT INTERVAL = -5.00/	VAL5.0	00/ S.0C			
MACH	ALPHA	ક	į	Շ	CYN	GB.	CAF	CNBO	CABO	CABS	CABE
2.740	-12.140	73880	. 29830	.00030	.00070	.00250	.28820	00,00.	.01540	.02520	.03100
2.740		•	07753.	00050	.00120	06100.	02675.	.00370	.01430	.02600	.03:60
2.70		í	. 18960		.00≥+0	.00169	. 26860	01+00	.01570	.02510	.03310
2.70		í	04041.	00270	.00270	.00100	. 25920	. 00430	.01660	. 02560	.03320
2.740	•	•	. 09933		00410	.00060	. 25260	.00450	.01720	. 02520	. 03200
٥٠.٢		ŗ	.06*70	•	.00450	. 00030	. 25100	05+00.	.01730	. 02540	20380.
2.740		ŕ	. 03520	00610	. 00360	05060.	.24700	05+20.	.01740	. 02540	.02920
2.740		•	00390		.02460	. 00250	. 24390	.00450	.01730	. 02500	. 0284C
2.70		18610	04170		.00310	.00020	.24090	. 00460	.01750	. 02450	.02730
2.740		.30820	08610	-	00000.	00000.	. 23750	02470	.01780	.02480	. 02-530
9.7°	_	.43280	13400	•	00000	00080	.23440	09~00	01710.	. 02550	.02530
5 7.	630	10759	. 05883	00610	04400.	.00060	.25150	. 00450	.01730	. 02530	.02940
	GRADIENT	.04558	01489	1,000-1	.00003	00005	00132	. 00000	. 00002	00003	0005:

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DATE 06 OCT 75	5 22			TABULA	TABULATED SOURCE DATA,		MSFC TWT 622 (1A125)	11251			PAGE	<u>6</u>
				Ş.	THT 622 (	MSFC THT BZZ (JA125) LAUNCH VEHICLE,	CH VEHICLE,	7* 07S		(F1N007)	7) ( 29 MAY 75	Ł
	REFE	REFERENCE DATA	₹							PARAMETRIC DATA	DATA	
SPEF SPEF SCALE	2690,0000 SQ. FT 1290,3000 INCHES 1290,3000 INCHES . DO+0	SQ. FT INCHES INCHES	XIARP VIERP	976.0000 .0000 .0000	978.0000 IN. XT .0000 IN. YT W00.0000 IN. ZT				8ETA ELV-OL ELV-OR	. 000 . 000 . 000	ELV-1L =	000.
		•	<b>S N</b> 0.	83/ 0	RN/L .	5.19 OA	GRADIENT INTERVAL .	NAL = -5.00/	9, 5.00			
ğ	ALPHA	8		5	5	Z.	중	3	CNBO	CABO	CABS	CABE
595	-11.660		.79+00	31140	.00060	00480	.01230	01680.	.00960	.03640	04690	C+660.
595	-9.530	•	780	3330	.00960	005+0	.01170	09260	. 00930	. 03550	.06570	.09643
395	-7.390	•	50730	19790	.00860	00470	.01090	.10350	.00920	.03500	. 06230	.09273
<b>6</b>	-5.110	· 	00 £	. 15370	.00160	00130	0¥600°	00211	06800.	0:480.	05930	.08510
r. 6. 9	-2.910	05075 0.020	050	06.100	09000	00200	. 00000	11460	09900	0/550.	04030	0.797.0
, e	1,520		310	01410	01059	02,00	0.800.	10980	.00850	.03220	05970	. 07950
265	3.740		10900	02870	01390	.00580	.00780	.10750	.00830	.03150	.05820	.0770
595	5.990		.23980	07200	01790	.00660	.00770	0.860	.00820	.03120	.05830	.07550
.595	8.230		.37390	11980	02193	.00850	. 00650	00680.	.00780	08620.	.05910	.07300
595	10.290		. +9200	17270	02460	.00880	04900.	.07640	.00780	.02980	. 06000	.07250
595	690	•	.13890	02960	012-0	00570	.00730	. 11380	.00860	.03290	.06760	.07960
	GRADIENT		.05716	02053	0011E	.00053	0000	00111	00007	00035	00023	00069
		er.	RUN NO.	82/ 0	RN/L	6.58 GR	NDIENT INTER	GRADIENT INTERVAL = -5.00/	0/ 5.00			
ğ	AL Pre	8		r T	Շ	Z,	g	CAS	CMBO	CABO	CABS	CABE
906	-13.310	•	.99970	. 40100	00560	01+00	.01070	. 13360	.01260	.04790	04460.	. 09820
906	-10.840	•	¥20	3:490	00660	01500.	0.500	. 13840	.01180	08110.	.07350	. 09520
906	-6.320	09:09:0	360	. 23560	00990	06900.	04/00.	1+390	.01120	.04260	01690.	04160.
906	-5.810		060	.16030	01100	.00730	. 00650	.14780	.01020	.03870	.06200	04480
906	-3.370	•	3+0	. 09520	01810	.01160	04400	14590	06600.	.03780	04190	.08170
906	950		. 10230	.02100	02420	.01460	.00250	14590	08600.	.03730	. 06130	.07920
906	1.460		.05180	04580	02690	.01550	02106.	. 14350	09600.	.03650	0.000	.07900
906	3.860		19530	10320	03170	.01720	04100.	. 13940	0.500	.03590	.05100	.07759
906	6.280	•	32030	13160	02750	.01230	.00250	13440	0.00970	.03680	00490·	.08020
906	8.20	•	46330	17499	03089	.0::60	.00170	.13120	0,600.	.03600	06690.	07640
	GRADIENT	•	06352	02747	00:8:	.00073	00039	16000	- 30007	00027	00009	00053

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REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATE 06 0	25 TOD 80			TABLEA	TABULATED SOUNCE DATA,		MSFC THT BRE (IALES)	A1253			PAGE	20
				350	THT 622 1	141251 LAUN	MSFC THT BER 11A125) LAUNCH VEHICLE, 74 OTS	¥ 075		(RIN007)	YAM 85 ) (7)	£ .
	AEFE	REFERENCE DATA	_							PARAMETRIC DATA	DATA	
. 5365 . LAEF	2690.0000 SQ. FT	50. FT	X	976.0000	żż.				BETA .	10.000	ELV-IL .	000.
BREF .	1290.3000 .00+0	S S	Q.	- 400 · 0000	000 IV. 27				ELV-08	000		
		€	₹ .0	0 /08	SAVE .	6.85 08	GRADIENT INTERVAL .	VAL5.00/	9, 5.00			
MACH	AL PHA	ક		ş	Շ	Ě	ਲ	3	OBN)	CABO	CABS	CABE
0+0	-14.270	·	<b>3</b> 0	. 50220	.01710	00760	.01340	.22940	.01500	.05700	00160	. 10130
. 9±9	-11.530	_	25	.38570	.01140	90570	.01140	. 23420	.01390	.05290	00410	0.0840
1.049	-8 B60		50	. 29650	. 90770	604.70	06600.	.24520	.01260	. 04830	. 08870	. 09280
1.049	-6.240		9	.2:980	. 00480	00390	00600.	.25180	.01230	.04580	.08450	.08810
- 249 - 1	-3.580		9 6	14960	05000.	00180	.00810	06505	0+110.	04330	08180.	.08413
5 6	051.1-	•	9 (	00000	coseu	00000	09/00.	0.000	09010	35140	0,000	08280
5 -	1.350	04110.	) C	01130		CHIDD.	0.400	10000 00000	00110	05140	0.000	נימה מי
n 030	000.0		3 6	0.670	0.250	0.500	04800	01220	07:10	01610	08080	.08213
640	016.6		90	-17340	B : 52.5	00400	06100	.23020	20110.	04530	04280	C44C0.
0.0	11.170	·	50	21610	01463	.00053	.00250	.22140	.01150	.04350	. 08400	.07:63
1.049	-1.100	٠	30	.09610	-, 004:0	0:500	.00730	.24660	.01163	01440.	.08370	.08633
	GRADIENT		2	02804	00115	64000.	00039	00167	00000	00000	00046	00041
		\$	PON NO.	0 /18	RN/L -	6.98 GR	GRADIENT INTERVAL = -5.007	/AL = -5.0	0/ 5.00			
MACH	ALPHA	ક		g	5	ž	163	CAF	CNB0	CABO	CABS	CABE
1.200	-15.060	1 -1.27720	5	.52140	.00560	00630	06310.	.24260	.01620	.06180	. 08900	.10120
1.200	-12.220	_	0.	40070	. 00050	00130	. 30960	.26190	06410.	. 05670	04680.	01560.
1.200	-9.320		80	.29510	00030	00130	01800	. 26950	.01380	05240	. 08560	09060
1.200	-6.570		Ģ	.20900	00220	00040	.00700	. 27300	01310	066+0.	.08290	.09050
1.200	-3.880		0.	. 12620	00560	.00160	. 00520	.27690	.01240	04740	. 08130	31060.
1.200	-1.210	•	5	.05+50	01150	. 00450	.00430	. 28250	.01180	.04510	.07810	04780.
1.200	1.320		Ö	00820	31340	04400	.00270	.27880	.01170	04440.	.07660	. 08580
1.200	W. 840	•	9	0.50	01490	.00410	. 20000	.27320	01170	07750	. 07750	08440
1.200	6.450	•	0 (	13730	01523	. 00.380	. 00060	.26580	07110.	03550	0.07920	nasen.
1.200	9.023		6	19270	01770	00400	00000.	26180	05110	04300	02670.	00970
	11.420	0.55.		23920	02330	CECOD.	05100	05050	06:10.	04260	0.4050	טטפים.
90.	CRADIENT			02583	00105	00029	1.000	00057	00009	00035	00051	00073

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DATE 06 OCT 75	ت لا		TABUL	TABULATED SOURCE DATA,		MSFC TWT 622 (1A125)	A125)			PAGE	Ñ
			ž¥	C THT 622	MSFC THT 622 (IAIZS) LAUNCH VEHICLE, 74 OTS	H VEHICLE.	270 at		(R1N067)	27 YAY 75	ξ.
	REFERE	NCE DATA						_	PARAMETRIC DATA	DATA	
- 535	•		•	Ĭ.					.000		. 000
י . פאפני		INCHES YHAPP		.0000 IN. YT	<b>-</b> -			ELV-01 =	000.000	ELV-IR •	000.
SCALE .	0,00.										
		PEN NO.	0. 138/ 0	PN/L .	6.42 GR	GRADIENT INTERVAL .	VAL = -5.00/	0/ 5.00			
FACH	AL PIS	8	ş	ដ	¥.		3	CNB0	CABO	CABS	CABE
1.459	-14.820	-1.21030	.49130	.00050	.00020	0,600.	.29360	.01200	.04560	02650.	.07170
1.459	-12.070	0.948:0	37610	00%20	.00120	.00820	.29560	.01110	04240	.06100	.06740
1.459	-9.210	69990	.27130	00270	00090	. 00680	.29610	0.010.	.03960	. 05900	.06650
1.459	-6.430	48780	. 18880	00760	00060	. 00500	29550	00000	.03710	.05860	.06560
1.459	-3.750	29290	.11110	00620	30130	.00390	. 29570	. 00930	.03540	.0563∂	. 06390
1. +59	-1.090	11360	.04330	01140	.00220	.00290	. 29720	. 00920	. 03520	.05460	. 06360
1.459	1.520	.05140	0,630	01430	07500.	06100	. 29650	. 00930	.03530	.05380	. 06390
1.459	5. 9.	.19240	06910	01450	. 00280	01100	. 29190	. 00920	.03520	.05510	.06+80
1.459	6.500	036A	12643	01690	.00420	01000.	. 28930	00600.	03440	.05640	. 06380
664.1	9.190	.49790	:8333	01850	.00430	00010	. 28260	06800.	.03400	. 05690	.05220
1.459	11.670	.64150	22280	02320	ე <b>45</b> 00.	00100	.27790	06800.	.03380	.05770	.06140
1.459	-1.010	10230	.03880	01170	.00210	.00280	. 29640	00630	. 03550	. 05460	.06350
	GRAD 1 ENT	.0624	02311	00108	- 00052	00036	00046	00001	00002	00017	.0001
		RUN NO.	). 157/ 0	FBN/L =	5.11 092	GRADIENT INTERVAL -	VAL = -5.00/	9/ 5.00			
MACH	A Pts	3	53	Š	Z.	<b>ಪ್</b>	3	CBNO	CABO	CABS	CABE
2.76	-12.140	73710	.29660	00030	06000.	. 00280	.28680	. 00390	06410.	. 02530	.03100
2.740	9.9	60850	.23670	00110	. 00200	.00260	.28030	.00370	.01420	. 02610	.03:80
2.70	-7.610	47500	. 19470	00300	. 00263	04100	. 26850	01+00.	.01560	. 02620	.03300
2. Y	-5.260	3×960	. 13970	00140	01100.	.00210	.26010	.00430	.01650	. 02580	.03310
ĕ. 740	-2.980	23070	.09730	00390	0.200	. 00130	25+30	05500.	.01690	. 02530	.03:90
2.70	069	12290	01+90	00660	. 00360	. 00080	.25160	.00450	.01720	07540	05820.
2.740	1.570	02670	.03290	00610	.00330	06000	.24820	.00450	.01720	. 02550	.02910
2.740	3.630	.07920	00360	00600	. 00260	. 00100	. P4490	.00460	.01760	.02530	.02830
2.70	6.120	19 <del>2</del> 40	04480	00620	.00170	.00100	. 24220	.00460	.01750		.02720
2.Y	077.00	.31090	08860	00470	00190	. 00140	. 23920	.00460	.01780		. 02600
2. 70	10.630	06584	13590	00780	00040	0.000.	. 23620	.00450	0. 0. 0.	05280	. 02500
2.7c	620	10+50	.05670	00760	.00462	.00060	2526	. 00450	.01730	04640	05940
	GRADIENT	.04522	01458	03025	.0000	0000-	00139	.0000	60000.	. 00000	00051

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DATE 06 OCT 75	OCT 75				TABL	TABULATED SOURCE DATA.		MSFC TWT 622 (IA125	141251			PAGE
					¥	C THT 622 (	MSFC THT B22 (IAI25) LAUNCH VEHICLE.	H VEHICLE.	240 25		(R1N009)	19) (29 HAY
	-	REFER	REFERENCE DATA	•							PARAMETRIC DATA	DATA
3667	2690.	, 0000	2690.0000 SQ. FT	di X	• 976.	976.0000 IN. XT				BETA =	. 000	פרא-ור
- 13EC	<u> </u>	2000	1290.3000 INCHES		•	TY .NI 0000.				ELV-0L .	88.	ELV-1R .
SCALE .	-	0400		; •	3	•				5		
			Æ	Š.	91/0	RN/L .	5.01 GRA	GRADIENT INTERVAL =	NAL5.00/	10/ 5.00		
Ā	4	A PHA	Š		ğ	5	C	Ŕ	ن	9	CABO	CABS
<b>3</b> 5.	_	11.660	7855(	550	.32650	00810	0.800.	.00650	08+80	04600.	.03600	. 06660
96.		-9.520	6379	99	S. 60.	00890	.00900	01900.	0.105.	.00870	.03320	06090.
<b>9</b> 65.		-7.290	50050	020	1990	01190	.01083	. 90%70	. 10990	. 03880	.03370	.05800
. 59B		-5.113	38980	686	0.100	01750	01450	.00360	:::51::	. 00880	.03350	. 95640
365		-2.900	. 25990	990	.: 3:23	32180	.01600	.00260	.1180	. 20853	.33290	. 05650
598		660	13763	763	.05793	02540	.0:550	04500.	. 1510	0.909	.03310	02850
χ. Σ.		520	01240	5	.01260	02430	.0:663	. 30260	.11250	07800.	. 03200	.05720
.598		3.7.0	0:601.	0:0	02579	03140	.01930	01100.	.10870	.00830	.03160	.05573
<b>965</b> .		5.970	63	23710	06990	03240	01810.	00000	0:660	. ეიცგე	.03130	01750.
<b>8</b> 5.		8.220	. 36539	530	11460	03080	.01630	.00140	06680.	25-20.	02950	C-850.
96°.		10.290	02164.	55	17100	03570	.01893	0.000	.07740	.00780	.02990	.05930
360		- 660	13740	92	.05729	02300	.01620	.00280	. 11550	. 22850	.03270	.05600
	CRAL	GRADIENT	. 05575	575	1.0.1 1.0.1	30126	2×000.	00019	00138	00005	00021	00015
			Æ	₹ .0	0 /06	FBN/L .	6.33 GRA	GRADIENT INTERVAL -	WAL5.00/	00. 5.00		
MACH	₹	ALPHA	8		2	Ç	Š	蔚	CAF	CNBO	CA90	CABS
868		-13.250	984+0	0**	.39180	01750	.01720	. 005+0	. 12670	.01280	.04860	.07300
86	•	10.800	78390	36	.30680	02080	.01890	01400.	. 13540	.01190	.04510	.07140
196		<b>-6</b> .280	59410	0	.22890	02720	.02270	.00210	. 14223	01110.	ロオピオリ	. 96700
88		-5.790	41710	0 .	. 15760	02870	. 02340	06000.	14520	. 3010.	C 330	. 06220
969	•	-3.350	26090	) <del>0</del>	09273	03800	. 02520	.00320	14020	0 010	070 3.	. 06210
96		. <b>9</b>	09630	330	01400	03350	.02530	07070	06441.	.0099.	3790ء	.05830
<b>8</b> 6.		1.470	. 05650	500	C36+0:-	03580	. 02610	00150	. 14230	0.60970	03690.	. 05850
86		3.860	. 18539	930	09263	04040	01750.	003:0	138:5	.03850	.03640	. 05980
<b>8</b> 6.		6.300	. 32270	2	12900	04310	.c <b>se</b> ອາ	00280	. 13640	.00960	.03670	. 0638J
<b>8</b> 6		 %	. 45460	69	16850	03630.	. 02579	00360	. 12500	.00950	03840	. 07 1 30
96.	_	010.11	. 59160	8	22403	03870	.01920	00330	. 12.90	.00380	.03750	5960
<b>26</b>		960	09253	S.	.01270	03430	. 02580	06000	. 14590	06600.	.03	<b>P</b>
	<b>8</b>	GRADIENT	. 66234	ž	0257B	00114	.00027	1.000	00037	00016	ŗ.	•

1 5 th

09:20 09:20 09:20 00:20 00:20 00:22

3.00c

<u>(</u>)

. 09120 . 09170 . 09170 . 08530 . 07580 . 07580 . 07590 . 07590 ال

DATE 66 0CT 75	t K			TABLEA	TABULATED SOURCE DATA,		MSFC TUT 622 (1A125)	14125)				PAGE	£ 23
				3.5SH	14T 622 (	IAI251 LA	MSFC TAT 622 (IA125) LAINCH VENICLE, 74 OTS	210 %			(R1N008)	7 ( 29 MAY	۶ د
	AEFEA	REFERENCE DATA								2	PARAMETRIC	DATA	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2690.0009 SQ. FT :290.3000 INCHES	SO. FT	9 9	0.96	976.0000 IN. XT				BETA ELV-OL	، و د	000.	ELV-1L •	9.000 .000
SCALE .	0-00°	_	•			ā	CONTRACTOR OF THE CONTRACTOR O						
į	5	<b>.</b>	į	È T	, § 2	, <u> </u>		֡֝֞֜֜֝֓֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	0.5 /00.5-		Ş	ğ	
640.	-14.17	1.15060		996	00310	00010	09900.	. 21710	, .	01600	.06090	.09360	10530
1.049	-11.510		0	39+60	00560	0.010		. 23300		06210	.05310	.09150	00860
1.059	-8.850	00589		.29670	00800	. 31070		050×2.		01330	. 05080	.08850	.09360
845°.	-6.210	•	•	21750	01160	. 21210		DC1-20.		.01270	.04830	01.00	. 08630
6-6.	-3.660		0	.14320	-,01500	.01380		<u>8</u>		01200	.04560	04080	. 08300
2.9	-1.120	•		.08340	0.710	01410		25040		.01.160	00110	.08020	.08173
66	1.350			.01030	-, 01830	0010.		. 2.660		06 10.	.04520	07840	.08!73
6-0.1	3.820			06070	02350	.016:0		07,53.		0.2.0	. D*7%	. 08020	. 08033
65. -	6.350			11930	02380	.01430		. 22560		.01290	04890	. <b>09</b> ∗00	. 08223
6-0.1	606.8			17590	02630	.01420	•	. 22500		01510	0€2₹0.	. 09*50	.07353
6 -	11.200			21910	02950	01410	•	.21650		01250	04740	.08%70	. 07243
6	-1.080	١		.08360	01840	01110.		25%	•	01510	94590	. 08210	. 08343
	CRADIENT	, D5+6+		92821	00106	.00027	700028	00186	·	90000	£000.	00010	00033
		ş	P. NO.	0 /68	- 7/ME	<b>6</b> .11	GRADIENT INTERVAL5.00/	WAL		<b>3</b> . 00			
404	AL PAA	8		E TO	č	25	된	CAF	0	Q	CABO	CABS	CABE
<del>8</del> 1.1	-15.000	1.2520		.51050	01100	0.000.	36 <u>5</u> 00. 0	05*25.	•	01580	.06010	.08870	. 10000
1.198	-12.160	97190		. 39020	01290	07110.	_	0.555.		.01480	.05620	06880.	01460.
1.18	-9.29		0	.2 <del>89</del> 30	01210	.01050		. 25630		.01420	.05420	06980	.09300
<b>8</b>	3. •		0	.:9930	01610	0.510.		. 26.50 5.05 5.05 5.05 5.05 5.05 5.05 5.05		.01350	. 05130	. 08280	02160.
1.18	-3.850		0	. 12150	01900	.01380		. 26920		.01280	06 <b>9</b> ~0.	.07950	0.4680.
- 198	-1.200	•		9.650	023+0	.01590		0756		.01230	06970.	01770	. 08670
<b>8</b> 6~:	1.360			01750	02590	61410		.27130	-	.01230	089%	.07640	.08230
<b>8</b> 61.1	3.870	•		- ,08239	02~30	.01352	-	. 26680		.01230	.04700	.07790	.08310
1.198	6.470	36823	-	14420	02620	.01370		. 25930		.01 <b>2</b> 20	.04630	.07980	. 08060
1.198	9.020	0.5:610		19970	02010	06£10.	09-200 0	.2350		.01200	.04560	. 08050	0750.
<u>.</u> .	044, 11		-	24590	03320	. 01560	•	. 23990		.01250	.0×750	. 08320	.07560
<u>=</u>	-1.14	•		.04630	02160	.01530		.27720		.01210	.04630	07670.	.08230
	GRADIEN	8:593.		026 %	00060	0000	900022	00039	00006	900	00023	- 00055	00079

grant was to be a second

DATE 06 OCT 75	8c 13		TABLE	TABLATED SOURCE DATA.		MSFC THT 622 (1A125	¥ <u>3</u> 3			PAGE	ř
			¥	Tut 622 (	MSFC TUT 622 (14125) LAINCH VENICLE, 74 DTS	H VEHICLE.	210 4F		(R1N008)	YAY 02 : (8	. 27
	1363±38	ENCE DATA							PARAMETHIC DATA	DATA	
	-		976.	ž				BETA .	004.	ELV-11 =	5.000
LAEF			•					ELV-06 -	. 363	ELV-IR -	000.
SCALE .	1290.3000 m	SACHES SHOW	1.00±	400.0000 IN. 27				ELV-UR .	666.		
		<b>35</b>	140, 0	RN/L -	6.44	GRADIENT INTERVAL .	VAL = -5.00/	0/ 5.00			
MACH	A Pre	Š	ğ	Շ	Š	85	CAF	080	CABO	CABS	CABE
59, -	•	-1.21780	09864	00340	. 00380	00200	04165.	.01170	04440	06090	.07260
1.462	-12.080	- 97230	.38280	00660	. 00460	.00453	.22670	01820.	.:0690	. 06240	. 06910
1.462	-9.2:3	-, 768-3	-27709	00783	.00380	.00330	. 29330	066001	.03780	0.66210	06770
1.462		+9290	01561.	0.W.O	38500.	. 30803	. 29250	09600.	.03550	01650.	. 06560
1.462		29500	. 11300	0.30970	07800.	00:00.	C8262.	05500.	. 33620	.05500	. 06430
1.462	£1 17	11780	.04630	064:0'-	.00730	02000.	. 29330	.00950	.03550	.05310	.063"0
1.462	1.500	. 0+363	31180	0:820	. 55853	95070	. 29433	04600.	.33580	. 0521.0	. 36380
· · 62	\$.050	. 18970	06690	01990	Ceed.	30180	39:20	.0930	0.03640	01400	.06433
7.	6.593	.33952	:22-0	02170	36600.	00260	. 2869C	01600	33480	.08880	. 6350
1.462		C668*	3677:	02:40	. 00850	33893	£96₹.	01600	.03480	03650	. 06250
1.462	11.673	.63TBC	2:6:2:-	02520	0.00970	00353	ر. رئار	016001	.03490	.05760	. 36180
1.462	-1.050	-11.013	CEE-G.	0:463	.00700	23060	08-62	0.600.	03590	05520.	02493
	GRAD:EN"	36237	02307	50131	+9600·	₹,000	¥1600.+	00003	₹.000.₽	33015	. 9000
		3	96/ 0	- J/Wb	5.11 GR	GRADIENT : N'ERVAL5.00/	VAL5.0	0/ 5.00			
MACH	APA	ક	r d	ò	CAN	85	JA?	08V	CABO	CABS	CABE
€.740	-12.1-0	73880	. 28730	0.000.	07000.	. 09270	. 28920	. 00390	.01510	. 02560	.03110
P. 750	-2.950	6:320	. 2.030	00200	00500	00180	.27553	02+00.	.03:00	.02810	.03233
2.70		+7690	.:8690	00080	.0320	07100.	.25570	. 004≥0	.21620	. 02850	.03263
2.7.0	-5.260	3~B23	. 13890	00280	0.200.	04100	.25953	02400.	.01570	. 02630	.03243
2.7.6	•	23080	.39760	00450	00380	.00100	254:0	05+00.	01710.	005.0	.03133
₽. 7¢9		: 2500	. 06650	007 <sub>1</sub> J	.00510	.0001	.25190	.03460	07710.	. 02560	. 02531
2.70		02580	0.9840	03820	01500.	00010	. 24830	09+00.	.01770	. 02560	.0283
2.70		.08030	00380	00560	.00350	. 30020	£4490	09400	.01780	. 02510	. 02730
₽. <del>7</del> 20		. 192:0	0447C	-,00750	.00339	00000.	ロナロナル・	02400	.01800	.02470	. 02620
2.70	B. 460	C670E.	7. <b>085</b> 60	00730	.00160	00020	. 23840	00410	.01820	.02500	.02530
8.350	10.620	08624.	13200	01110	. 00320	00130	CF-489.	09400.	07710.	. 02450	. 02450
£.740		01601	.05930	00580	08400.	04000.	0,555.	09400.	.01760	. 02540	. 02870
	GRADIENT	8-6-0	01472	00033	.00000	51000.	00137	16000.	60000.	00012	00057

CARE .07260 .06910 .06570 .06570 .06570 .06370 .06380 .06480 .06480 .06480

CABE .03110 .0323 .03242 .03242 .02531 .02533 .02730 .02730 .02730 .02730 .02730

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DATE 06 OCT 75	oct 73		\$	BULATE	TABULATED SOUNCE DATA.		HSFC THT 622 (IA125)	1A183)			PAOC	2
				#\$.c	NT 628 C	AIPS LAU	MSFC THT 628 (IAIRS) LAUNCH VEHICLE, 74 OTS	2. 015		(RINDON)	1 28 MAY 75	, & ×
	AEFEREN	ENCE DATA								PARAMETRIC DATA	DATA	
	0000		•	0000	2					000	- 1 1 1 1 1 1 1 1.	9.000
אני	1290.3000 INCHES			0000.	ż				ELV-0.	10.000	ELV-1R =	000
BREF .	1290.3000 INCHES		•	400.0000					ELV-09 .	000.		
		PEN NO.	. <b>9</b> . 0	•	FRV.L -	9.10	GRADIENT INTERVAL .	RVAL5.00/	00.5.00			
HACK	A PA	8	2		ò	, L	븅	CAF	CNBO	CABO	CABS	CABE
ģ	-11.610	-,75670	28230	30	-,00890	0+600		00060	00810	.03700	. 06970	.09730
đ	-9.480	61380	.22460	9	00730	07800.	•	.09620	.00930	.03560	.06580	06360.
\$	-7.250	·	. 16890	20.00	-,00860	.00860	04110.	. 10430	11.10	.03480	.06210	. 68923
<b>.</b>	-5.090	36370	. 12700	8	01540	01240	00860	. 11300	01600.	03470	.06010	.08310
ą.		22990	.07640	5	01980	01470	.00880	. 11640	06800.	03330	. 05890	.07930
60		10369	.03120	20	02850	.01890	09200.	.11610	. 00850	.03240	.05820	07840
66.			01569	69	-,02970	01610.	06730	.11200	.00830	.03180	.05760	0.07640
\$6°.			05870	20	03380	.02020	.00750	. 10560	. 00850	.03220	.05750	C7+70.
Đ.			10060	980	03650	.02050	05700.	08063.	. 10930	07150.	02770.	07570.
66.		.41130	15120	80	04050	. 02130	0.900.	0.08840	.00800	0.020.	01650.	.07050
ą.		53070	20410	0	04000	.02020	0:200.	.07700	06200.	.03000	01650	. 08950
\$	630	10220	04,50.	9	02410	01710.	01800.	.11670	.00850	03240	35860	.07650
	<b>GRADIENT</b>	91750.	020+6	9	00196	.00076	<b>9</b> 1000	00151	00006	00026	00082	00063
		PCH NO.	6. 85/ 0	0	RN/L -	6.59	GRADIENT INTERVAL5.00/	RVAL = -5.0	10/ 5.00			
A CAN	A PHA	ð	2		5	Č	Ę	CAF	CNBO	CABO	CABS	CABE
006	•	96180	.37260	9	-,02090	.01680	01030	.13210	.01270	04840	06470.	.09720
006		76010	.28810	01	02480	01810.	00820	.13780	09110.	06440.	.07330	00+60
006.		57700	.21300	00	02980	. 02120	·	. 14250	01110.	0,240.	01690.	08680.
906	-5.780	+0300	0011.	8	03220	.02210	·	. 14282	.01080	0.130.	.06460	.08660
006.		23890	.07590	061	03830	.02530		06441.	.01020	03880	.06150	. 08150
.530	016	08200	. 00290	8	03860	.02370		.14910	00800.	.03750	0.06040	.07810
006.		07770.	05670	02.	04020	.02+00		. 14680	. 00970	. 03690	. 05950	.07800
.900		.21620	12080	90	04460	.02620		14050	.00970	.03700	. 06060	. 67730
006.		.35150	15550	20	04340	.02390		. 13580	0.00970	.03690	.06320	.07850
.900	8.790	.48230	19160	60	04310	.02200		. 13130	. 00920	.03230	. 05830	.07640
.900	_	01419	24310	011	03830	.01660		. 12820	. 00970	.03710	.06770	.07480
006.		07700	C6000 ·	650	04060	. 02520	. 00250	. 15000	0.000	.03740	.05010	.07760
	<b>GRADIENT</b>	.06354	02749	B +	-,00085	₹1600.	-,00003	00062		00026	00015	00053

1 6 1

DATE 06 OCT	27 73		TABL	TABULATED SOURCE DATA,		HSFC THT 622 (1A125)	A1253			PAGE	Ж
			ť	MSFC TWI 622 (TAI25) LAUNCH VEHJCLE, 74 OTS	TALES LAUNC	H VEHICLE.	7+ 0TS		(R1N009)	19) ( 29 KAY	ر الا
	REFER	REFERENCE DATA							PARAMETRIC DATA	DATA	
•	2690.0000	50. FT	•	ż				BETA	000	ELV-11 •	5.000
- 1967 1945 -	1290.3000 1290.3000	INCHES YMRP		TY .NI 0000.				ELV-01.	000. 000.	ELV-1R =	
# W	6¥C3.										
		RUN NO.	NO. 87/ 0	0 RN/L -	6.91 GRA	GRADIENT INTERVAL .	VAL = -5.00/	00. 5.00			
MACH	AL PHA	ž	£	Շ	Z	ę	CAF	OME	CABO	CABS	CABE
1.047		7	. 47950		.00330	.01370	. 22770	.01950	06850.	0.09270	.108
1.047			.37140		.00330	.01200	. 2×350	01340	.05110	05150	960.
1.047			.27830	0.00170	00+00	01:10	.24480	.01310	.05000	01060.	90.
1.047		46890	39188	0 00470	04400.	C0600'	.24880	.01253	.04770	. 08590	.08
1.047			.13370	•	. 00630	0:600.	. 25350	06110.	04840	. 08230	.08
1.047		•	. 96730		. 23620	. 00933	.25120	01170	. 04450	. 38220	g.
1.047			07730	-	02700.	06400.	.24700	.91810	.04600	06620.	.08 .08
1.047				•	.00823	. 20709	61682.	.01269	C9740.	აგ≀გი.	.08
1.047		. 35320	-, 13890	06-10 0	02700.	. 30550	0 18£ č	.01190	.04530	04620.	976
1.047		08764.	18820	05150 - 0	.00860	DEACO.	.22,370	.01250	.04750	. 38480	.07
1.047		C8483	23640	•	030:0	00750	.22000	07510.	.04850	.08250	. 67
1.047		1 12530	.06770	001320	.00750	04600.	.24700	.01210	.04620	.09370	980
	G9AD1EN*		02803	+60000- €	. 59627	90330	00:90	01000.	.00035	00022	003
		AGN NO.	NO. 86/ 0	BN/L .	7.03 CRA	GRADIENT INTERVAL5.00/	VAL5.0	10/ 5.00			
HACH	ALPHA	Š	S. S.	ò	Z X	헍	CAF	CNBO	CABO	CABS	CABE
1.200		1 -1.24230	06964	000320	00100	05110.	24.240	.01560	.05950	08680	
1.200		95970	.37810	000630	09+00.	01010	.26140	.01460	.05550	00060	.09
1.200	<b>-9</b> .290		.27520	•	. 00620	. 30850	. 26560	.01390	. 05280	.08730	.096
1.200			. 18600	_	.00500	.00780	. 27050	.01310	05640.	.08300	60.
1.200			. 10720		. 00860	01500.	.27510	.01250	.04770	. 08020	.089
1.200		١	.03740	•	02600.	. 00550	. 28250	.01200	. 04590	06940.	.08
1.200		·	-,02810	,	0.800.	04400.	.27960	06110.	. 04520	.07620	.083
1.200		•	09320		08800.	04800.	. 27300	06110.	. 04550	.07750	.08
1.200		•	15350	•	. 03860	. 00220	. 26+30	.01190	04830	.07900	9.
1.200			21220	•	.00820	.00150	. 25870	.01180	06440.	.08010	.07
1.200			25260	•	.00950	09000	.24560	.01220	.04660	.08250	.07
1.200	<del>-</del>	•	.03380	· -	008600.	. 00520	.28120	.01220	04940	07770.	980
	CRAD1ENT	.06470	02592	00075	00001	00036	000 3¢	00007	00029	00035	- 60

CABE 10210 1

**5.00**0

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CARE . 10000 . 09390 . 09210 . 08970 . 08390 . 08390 . 08220 . 08220 . 08220 . 07554

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SAEF .				, 453 TUT A	141261		9.0				
PREF.			È	THE OCC TAIRS LAUNCH VEHICLE, 74 OTS	ואוכטי ראואו	ca venicee.	600		(RIN009)	9) ( 29 HAY	, 87 Y
HEF .	REFERENCE	ENCE DATA							PARAMETRIC DATA	DATA	
BREF .	2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES .CO40	SQ. FT XHRP INCHES YHRP INCHES ZHRP	• • •	976.0000 IN. XT .0000 IN. YT .00.000.004			_	8ETA = ELV-OL •	. 000 . 000 . 000 . 000 .	ELV-1L =	5.000 .000
		RUN NO.	. 139/ 0	RN/L -	6.43 GR	GRADIENT INTERVAL .	WAL5.00/	5.00			
HON		3	S.F.	Š	C	85	CAF	CNBC	0490	2485	3073
 85.		-1.20040	. +8350	. 00060	.00030	08600.	.29010	08110.	06470	04180	02180
- 458	•	94170	.37050	00490	.00210	.00850	. 29430	.01050	04020	.06250	06980
		69710	.26790	00400	00040	.00720	. 29520	.01000	.03830	.06240	0.068*0
90		48080	. 18240	01030	. 00130	04500.	. 29*90	.00970	.03700	. 05950	.06610
2		28650	.10460	007+0	00030	.00470	07465.	. 00960	.03860	.05690	. 06450
ָרָ בְּיִבְּיִבְּיִבְּיִבְּיִבְיִיבְיִבְּיִבְיִבְיִבְיִבְיִבְּיִבְיִבְיִבְיִבְיִבְיִבְיִבְיִבְיִבְיִבְ	1	•	.03660	01220	.00300	.00380	. 29730	06600.	.03620	09480	.06380
9	D.C. 1	•	02210	01550	05400	. 00260	.29710	. 00950	.03630	.05340	.05350
9		00000	089/0	01490	.00310	. 00220	. 29310	04600.	.03280	. 05540	04490.
		00.02	13690	01720	.00460	. 00120	.28970	. 00920	.03520	.05710	.063+0
004.		. 50493	- 18980	01930	.00500	. 00060	. 28360	01600.	.03470	.05700	.06180
	1.000	Casso.	eceso	02350	. 60553	00030	€7900	01600.	.03490	. 05800	. 06:30
BC+ - 1	8	05/50	03450	01110	.00180	00450	05/65.	03600.	.03630	.05480	.06400
	21000	, 00¢8¢	Ce324	00100	94000.	0003+	00019	~.0000≥	00009	00023	00002
		RUN NO.	155/ 0	RN/L .	5.13 GRA	DIENT INTER	GRADIENT INTERVAL5.00/	3.00			
HACH		S	CLA	Շ	CAN	CB.	CAF	CMBO	CABO	CABS	CARE
. Y	•	73860	. 28870	06000.	00020	.00370	0.582.	. 00390	.01510	. 02560	03110
2.¥		61100	. 23920	.00060	0,000	.00340	.28010	02400.	.01600	.02590	.03220
2. 7.		47860	. 18830	0.00040	.00060	.00300	.27030	. 00420	.01590	. 02650	.03250
2.0		34830	. 13930	00150	06000.	.00220	. 26083	04400.	.01670	05920	.03230
, t	•	23080	. 09710	00320	.00180	.00210	.25420	.00450	.01710	. 02620	.03120
2.75		12160	. 06390	00590	. 00320	. 00150	35.90	.00469	.01750	. 02580	. 02920
3		02560	.03560	00400	.00160	.00170	24940	.00%60	.01760	.02580	. 02820
Z. 760		01640.	00250	006≀-	. 00220	. 00150	.24670	. 00460	.01770	. 02550	.02720
Z. 740		. 19200	04500	00550	.00080	.00160	. 24280	.00470	.01790	05550	.02610
S		.31180	08930	00110	00440	. 00280	.2*000	.00470	01810.	. 02570	0000
٠. ک	_	.43560	13660	00640	00180	.00150	. 23790	09400.	.01770	.02550	074.0
٠. ح	630	10630	. 05800	- 00480	0300	01.00					
				***	0	0.100.	. 63.60	.00463	.01760	.02580	. 02860

DATE 06 OCT 75	DCT 75			148	A.ATED	TABLLATED SOURCE DATA.		HSFC THT 622 (1A125)	A125)			PACE	88
				¥	SFC THT	622 (1	A125) LAURC	MSFC THT 622 (1A125) LAUNCH VEHICLE, 74	7 01S		(R)N010)	VAM 65 1 (0)	. & ×
	REFER	REFERENCE DATA	_							_	PARAMETRIC DATA	: DATA	
SREF . LREF . BREF .	2690.0000 SQ. 1290.3000 INC 1290.3000 INC	SO. FT INCHES INCHES	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5	976.0000 .0000	7 7 X				BETA ELV-OL ELV-OR	000. 000.	ELV-1L ELV-!R	000.000.
		æ	RUN NO.	66		- T/NJ	4.92 · ORA	GRADIENT INTERVAL .	VAL5.00/	90/ 5.00			
MACH	AL PHA	ક		r,	U	č	2	95	CAF	CMBO	CABO	CABS	CABE
965.	-11.560	78440	20	.31280	•	00030	.00960	.00300	01860.	.00830	.03170	01650.	. 09320
598	-9.410		250	.25930		02600	.00920	.00229	10740	.00820	03110	.05820	. 28980
598	-7.170	•	601	.20320	_	01230	.91160	. 00100	0.61.	02700.	.02960	05130	.08510
598	-5.010	•	350	. 15823		01700	01390	02000.	12240	.00780	08680.	. 05030	0799D.
96.	-2.800	•	ç,	.11280		01690	01310	02000.	1,5710	00700	מה פהם.	0.000	מפכים.
965	590	•	د آ	.05850		02230	005:0.	- 30110	000	07/00	02000	00000	0.575.0
.598	1.610	•	00	.02770		02270	01430	36:00	000	02/00.	OCENIO.	06640	מניני.
.598	3.830	•	230	0:6:0		52840	.0175	C2200	386: .	06/00.	טיייטי. סייריטי	CONTRACT.	00000
. 598	6.050		000	05280		3320	05910.	UC330	0590:	09/00.	00,000	00,00	on our
.598	8.300		280	-,10003		02393	.01550	. 00293	. 69550	00200	.025.3	0:400	01500
598	10.370		C 66.	15203		03:30	.01570	00370	0.500.	08900.	. 02550	.05340	05730
.598	580	114350	350	G6*50	•		.01580	00090	. 12530	0-700.	.02830	.05070	.07380
	GRADIENT	.05528	528	01936	į	90158	. 20053	1,000.1	00176	90003	000:3	63002	00050
		&	PUN NO.	0 /8ä		RN/L .	6.19 GRA	GRADIENT INTERVAL5.00/	VAL5.1	00/ 2:00			
104	A PHA	Š		i d	U	5	, A	ě	CAS	08 <b>V</b> 3	CA80	CABS	CARE
66	012.51-	ī	330	.41020		.02360	02040	00100	.13160	.01260	.0480	.07040	01660.
006	-10.730		69	. 32290	•	02470	.02140	00000.	. 13690	.01170	04440	. 06920	. 09520
906.	-8.190	06809	330	.24280		02800	.02310	00170	. 14330	06010.	04140.	.06510	. 090 30
906	-5.670	1-,42953	52	16840	-	03320	.02600	00280	. 14120	.01050	.03993	.06080	. 38660
006		·	010	. 10220	•	03410	. 02540	00310	. 14260	06600.	.03763		. 08240
006.		11120	120	.02770		03560	04520.	00350	.14370	.00980	03720		08140
.900		0.83:0	3:0	03890		03970	.02710	00400	. 13930	08600.	.03720	.05880	.08180
906		06081. (	560	39120		04370	. 02880	00320	. 13720	05600.	.03610	01650.	.07930
. 900	6.410	31950	33	- 1296		04260	.02540	00440	.13170	09600.	.03670		08080
906.	6.830	05034.	333	16250		04320	07450.	-,00490	. 12220	05600.	.03623		0.080.
.900	11.100	. 59380	380	21790	•	04510	.02320	00610	. 12210	.00960	.0364∂	.06970	.07630
.900	800	10580	280	.02700	•	.03180	.02310	00330	. 14260	.01000	.03830	.06100	.08300
	GRADIENT		075	02591	_	00137	.00050	00003	00088	00005	€1000	01000.	00037

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DATE 06 OCT 75	2CT 73			TABLA	TABULATED SOURCE DATA,		MSFC THT 622 (1A125)	(A125)			PAGE	8
				£	THT 622	IIAI2SI LAUN	MSFC THT BZZ IIAIZS) LAUNCH VEHICLE,	74 015		(C:0N18)	9) ( 29 HAY	۲ د کار
	REFERE	ENCE DATA	•							PARAMETHIC DATA	DATA	
9867 9867	2690.0000 1290.3000 1290.3000	SO. FT INCHES INCHES	084.7 084.7	976.0000 .0003 .0003	.0000 IN. XT .0000 IN. YT	<b>b.</b> b			8E7A ELV-OL ELV-OR	000. 000. 000.	ELV-11 •	000.01
i i		Æ	RN NO.	8	PN/L .	<b>6</b> .40	GRADIENT INTERVAL -	RVAL = -5.00/	90/ 5.00			
¥Q¥	AL PHA	8		ş	Շ	CYR	85	CAG	9	CABO	CABS	CABE
1.048		•	210	.51210	C0710	06110.	.00270	.21620	.01550	03650.	08060	.10280
B-0.1	-11.460		010	. 4014C	009•0	.01310	.00130	.24070	.01340	05050	.08920	0.09670
- 948			014	. 20960	01270	.01460	.00070	DE 442.	.01300	04640.	.08750	.09360
- 9-80 - 1			•30	.23:70	01559	0.510.	00030	.24930	.01250	.04760	.08310	. 08980
<del>2.</del> 8	-3.600		٠ ۲.	.:6339	91830	.01670	00080	253.0	.01200	.04560	.07920	. 38580
- 04B			200	. 09780	02120	01710.	00160	25030	.01180	05+40"	.07960	. 08530
- 048		05/00 (	50	. 62590	32273	.01730	00200	.24520	.01210	00940	.07760	. 08539
1.048		15450	.50	04793	- 52470	.01750	00250	. 23820	.01240	02240	.07930	.08390
970.	6.450	32840	<u>چ</u>	11779	-, 02500	.01580	90230	.23730	07110.	08440.	0.9-0	. 08250
1.048	9.970	06574. (	052	16713	32743	.01553	00210	.22300	.01220	0.4640	. 08463	07890
1.048	11.270	07765. (	70	21320	03340	.01930	00300	.21530	.01280	058-0.	. 08460	04/70.
1.048	-1.010	. 16250	35	0:660.	02010	.01640	00090	.24620	.01220	.04650	.08:50	01.83.
	GRADIENT	. 06489	Ĉ.	02824	00083	.00010	00022	00203	.00005	. 00026	00007	00023
		£	RUN NO.	0 /16	RN/L .	6.35	GRADIENT INTERVAL = -5.00/	RVAL = -5.(	00/ 5.00			
MACH	AL PHA	ટ		C.	Ç	CYN	æ	CAS	8	CABO	CABS	CABE
1.197	-14.960	٠	200	.52610	01300	.01150	. 00290	. 23560	.01520	.05780	. 08730	10000
1.197	-12.130		370	. 40660	01460	.01380	.00210	. 25650	.01430	07760	.08740	.09370
1.197	-9.220		ŝ	. 30030	01730	.01520	0:000.	.26370	.01380	.05250	. 08550	. 09250
1.197	-6.460		<b>6</b>	.20940	01890	.01570	00060	.26700	.01300	0.640	.08170	. 09220
1.197	-3.780		<b>6</b>	12960	02230	01710.	00180	.27300	0.510.	.04720	.07670	0880.
1.197	-1.110	•	3.0	.05810	02*10	.01830	00190	.27810	.01220	.04650	.07+80	C#180.
. 197	1.420		60	00690	02360	.01580	00210	.27460	.01210	0.640.	.07420	.00800
1.197	9.6. M		2	07370	02650	.0:650	00300	.26930	0110.	. 64850	. 67,560	. 08350
1.197	0.95°		20	- 140-	02730	.01510	00320	.25030	.01203	.04580	. 57820	. 08340
1.197	9.080		S S	1978-	02630	.01320	00320	. 25±60	.01180	01240	05616.	05-150.
1.197	11.530		270	24530	03530	.01830	00470	. 24 300	.01220	.04631	.08210	.07500
1.197	-1.080	•	2	. 05380	02*90	.01810	00250	.27700	.01230	.04700	.07560	. 08800
	<b>GRADIENT</b>	.06500	00	02625	00047	00017	00015	00056	00006	00021	9:000:-	00079

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REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATE 06 OCT 75	OCT 73			TABLE	TABULATED SOUNCE DATA.	CE DATA.	1	HSFC THT BER (1A125)	ũ			30ve	2
				¥	C 14T 622	MSFC THE 622 (!A125) LAUNCH VEHICLE.	LAUNCH	VEHICLE. 7	74 075		(R1N212)	VAN 85 : (C	. &
	REFERENC	ENCE DATA								-	PARAMETRIC DATA	DATA	
SCALE .	2890.0000 50. 1290.3000 INC 1290.3000 INC	FAA	94 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	400.	976.0000 1N. .0000 1V. .000.000 N.	<b>*</b> * * * * * * * * * * * * * * * * * *				8ETA • ELV-OL • ELV-C9 •	800 cc c	ELV-16 *	300°01
		€	₹₽ 160.	C /2*I	BN/L	Ø. 4	CRAD	GRADIENT INTERVAL .	AL5.00/	00.8.00			
Ž.	AL PHA	5		5	đ	A.C	_	ಕ್ಷ	3	CBNS	CA90	CABS	CABE
1.460	١	-1 21810	0	49850	00760		92660	00390	. 29530	.01120	.04270	.06330	.07399
1.460		95753	S	38450	06600'-	_	.00562	. c0290	. 29450	0:030	.03930	.05410	C£370.
1.460			0	27900	00963		.00600	. 50210	61462.	. 91283	2:852	. 25250	JC890.
1.460	-6.433	49070	70	CE 16: 7	-,3:553		C3630 -	. 25100	. 29340	06600.	. 13740	00855.	.06510
1.+60		29-20	20	:: 27.5	0:33		.20733	. 39659	.29420	55600.	.337:0	. 25-30	. 06+52
1.460	-1,090	11600	9	6-10	3:903		.91083	-,00050	0+962	00970	.33590	05540	383801
1,460			33	0:333	32:23		6+1:5.	03163	.25530	. 00960	.03653	.05190	053+0
1.459			20	-, 06963	02123		.01030	002:0	01565.	0+600'	. 33583	.05390	.06350
1.460			<u>ي</u>	12453	-, 32333		.0:123	00330	60062.	02660.	. 93550	0.05540	06230.
1.450		Ī	30	17962	52423		.01070	03359	. 28390	02600.	.33493	.05580	.36150
1.460	_		23	22:70	-,02769		.91693	02420	.27650	02650.	.03210	.05720	. 26110
1.460		•	53	.04223	1.01749	•	C6630	00010	. 29530	09500.	. 53663	.05250	. 26350
	8	. 06253	53	02322	20131	•	00037	0003-	00020	÷0000∵-	00016	65567	9301:
		\$	₹ 8	151/ 0	PBVL .	9.12	GRAD	CRADIENT INTERVAL5.00/	kt5.0	9, 5.00			
7.74%	A PHA	ð		1	č	Š	-	g	345	O <b>G</b> AC	CABO	CABS	CABE
2.70	•	75450	0	29530	0000	,	0.000	.00160	28940	00390	084:0	. 02560	.03:00
2.30			73	.2+350	30230		.00210	.00120	.27950	.00+30	01610	.02590	.03160
2.70		•	60	.19090	-, 00089		.00190	.00120	0.075	.00%20	.01610	. 02920	36:50.
2.740	-5.290	35280	693	. 14253	02210		.00210	06000.	. 26070	. 00%	.01690	. 02660	.03180
2.70	-2.980	23100	00	25160.	-, 00450		.03350	. 00060	25-80	.00%50	.01730	. 22520	.03070
2.7.5	690	12770	70	.2678C	30570		. 39*50	. 00050	. 25300	. <b>0046</b> 0	01110	. 02550	. 02870
2.70	1.570	02870	50	.03750	00523	-	. 20360	0,000.	J¥8€.	.03473	.21830	.02570	.02753
2.70	3.830	57.70.	'n	.5553.	02650		.00330	03020	. 2+530	00+10	3:8:0	. 02550	. 02550
2.70	6, 120	.1877	ې	Q 100	05823		.00410	00040	.24130	.00483	.0:620	05~30.	. 02560
2.740	8.430	.30500	90	08420	cce60	·	.00280	00070	.238+0	. 30480	. 3:843	01520.	. 02-50
2.7v0	-	. +2950	50	13039	-, 91830		.03367	00130	. 23500	.00470	06/10.	.02450	02390
8.7.0	630	11070	70	.06163	095:0		06+30	. 00020	.25310	02400	06110	. 02550	. 028:3
	ORADIENT			01444	00026	. cooo	1001	000:1	00142	.00003	€:000.	60000	00059

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DATE 06 OCT 75	87 738			TABLE	TABULATED SOURCE DATA.		MSFC TWT 622 (1A125)	14125)			30 V d	ñ H
				Ţ	C TWT 622	(1A125) LA	MSFC THT 622 (14125) LAUNCH VEHICLE, 74 OTS	210 v		(R!N0!!)	27 YAM 25 ) (1	. 87 Y
	REFE	REFERENCE DATA	4							PARAMETRIC DATA	DATA	
	2690.0000 50	56. FT	de X	- 976.	ž	-			BETA -	030.	ELV-11 .	10.000
	1290.3000 INCHES 1290.3000 INCHES	INCHES	8 A		.0000 IN. YT	<b>j</b> e je			ELV-0R .	8 8 8	ELV-18 =	660.
		_	5	8/ 0	FRV.L	5.03	GRADIENT INTERVAL =	RVAL = -5.00/	90/ 5.00			
A CA	AL PHA	8		2	Š	Š	65	3	9	CABO	CABS	CABE
.60	ì	•	77650	.29680	01940	06910		.09550	00600	.03750	.06760	02660
.602	_	•	05 £	.23710	02070	01730		. 10+00	.00920	.03500	.06270	. 0 <del>858</del> 0
.602			49260	. 18500	02160	.01780		. 10860	. 00910	.03+80	05650	. 08400
- 602			. 37730	. 14010	D241C	. 92020		.11630	00600	03+40	.05730	.07860
89	•		2+810	04160	928+0	. 62170		. 11550	06800	.03390	.05770	. 07650
.695		•	. 12140	.0 <del>4</del> 590	03290			.11820	.00870	.03210	. 05750	.07350
99.		•	55 50 50 50 50 50 50 50 50 50 50 50 50 5	. 00350	03520	•		. 11360	.00840	. 03220	. 05640	.07310
289			.12500	038+0	03930	. 02533		10990	.00850	.03240	.05620	.07169
.602			.25460	08280	33990			. 10220	00800	.03070	.05600	.06790
59			.39,90	12810	04210	•	•	.08950	.00910	. 03090	.05950	0,06940
<b>29</b> 9.	10.310		.50093	18330	04450	•	١	.07820	07700.	. 02960	.05880	.05653
. 632	670	•	.12160	.04573	03180	•		.11760	. 03650	.03290	.05740	.07340
	GRADIENT		.05596	6-610	00158	. 00053	300029	00097	00037	₹200	00025	02068
		Œ	PUN NO.	93/ 0	FBN/L =	6.33	GRADIENT INTERVAL -	RVAL = -5.00/	20/ 5.03			
, C	APHA	3		2	Շ	Š	<b>8</b>	3	OBNO	CABO	CABS	CABE
.902	-13.250	<u>'</u>	.98060	.38660	02350	. 02060	05500.	. 12880	.01270	04840	.07300	04960.
₹,6.	-10.800	· _	720	.30100	02550	.02190		. 13790	01180	04200	.07150	03160.
-96		•	001	.22560	02890	.02360		064 <del>4</del> 1.	0:110	.04220	.06740	. 08550
.93		•	.41700	.15710	03480	.02730		. 14680	.01060	.04030	. 06230	.08240
905	•	•	050	.09390	03450	. 02630		. 14720	.01030	.03920	.06100	0.079*0
.902		•	060	, 01B90	-,03960	. 02903	•	. 14700	.01030	. 03930	.06140	.07820
.902		•	.05560	04890	-, 0+000	. 02823	•	. 14440	. 0096.0	.03650	.05850	.07550
.905			19260	1001.	04210	05830	•	14820	09600	.03680	.06020	. 07560
96.			.32300	13270	03380	. 02-30	•	. 13660	00000	. 03730	.06460	0.440
905			*S630	- 1750	04010	.02300	•	12950	0.600.	. 03690	07040	.07650
905	-		29660	25930	- 05030	. 02030	•	. 13020	.00970	03200	.06750	.07160
96.		•	ec i	.01310	039+0	. 02833	•	1.640	01010	03840	08650	06970.
	GRADIENT		.9629E	- 02699	00093	.00022	. 000 -	÷.00073	₹1000°-	~.000.∼	00022	00039

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Section   Column	DATE 66 OCT 75	oc* 75			TABLE	TABULATED SCURCE SATA.		MSFC TUT 622 (1A:25)	A:25)			PAGE	32
					¥	C THT 622 1	INIZD LAUN	CH VEHICLE,	7* 075		CRIND	11 ( 29 MAY	ξ γ.
E-1200.1000   LOCAS   VAPP   Part   CONDO   14. XT   Part   Par		REFE	PENCE DA	4.							PARAMETRIC	: DATA	
Correct   Corr	2867	2690.0005	<b>U.</b> -		• 976.	0000 IN. X1			-	BETA =	000.	ELV-1L =	10.000
MAPPIN   M	BRES - SCALE -	1290.3000 1640.3000		<b>8</b>	9					ELV-08 •	. 000	a Kilandi	
1.4.00   1.15910   1.9880  0068			-	RUN NO.		RN/L .		ADIENT INTERN					
- 14.790 - 1.1591095800068001960006402119001530058100581011.4.79011.5910958100068001020205600134001340058100134	Š	ALPHA	3		5	Շ	Z.	<del>1</del> 85	CAF:	8	CABO	CABS	CABE
-11.46090760	1.0%		7	5910	0896 <sub>*</sub> .	00690	.01080	. 30640	.21190	.01530	.05810	09160.	. 10250
-1.0506957029830009700110000570294800131005000024800013100482002222001172000129025470012600482002222001152001252022220011520012520223200119024820012600482023320022300223001252002230012520022300125200223001252002230012520022300223001252002230022300122002230022300122002230022300122002230022300223001220022300223001220022300223002230022300223002230022300223002230012200223	1.047			03/0	38910	30640	. 51032	.02280	. 24020	.01340	.05090	00060.	05730
-3.590 -1.5530 -2.2220 -0.0173 -0.0192 -2.5960 -0.01560 -0.0980 -0.05830 -0.015530 -0.01530 -0.01530 -0.01530 -0.015530 -0.01530 -0.01530 -0.01530 -0.015530 -0.01530	1.0%		•	<b>85</b> 70	.29830	00873	. 01:00	. 29590	0814Z	.01310	.05029	.08983	.09380
- 3.59032420	1.047			9290	. 22220	0:179	.31170	00+30	.25060	.01260	.04800	00460	. 08883
1, 450   -1,5530   -1,9530   -1,1950   -1,1950   -1,050   -2,5230   -1,1950   -1,050   -2,02040	1.047			2450	. 15530	-,01550	.31390	.00290	25470	.01210.	. 04520	. 08020	. 08380
1,420   .00280   .01720   .0259c   .01560   .00160   .24820   .01270   .04570   .04570   .02550   .01230   .01230   .01230   .01230   .01230   .01230   .01230   .01230   .01230   .01230   .01230   .01230   .01230   .04560   .01230   .01230   .01230   .01230   .01230   .04560   .01230   .01230   .04560   .01230   .01230   .04560   .01230   .01230   .04560   .01230   .04560   .01230   .04560   .01230   .04560   .01230   .04560   .01230   .04560   .01230   .04560   .01230   .04560   .01230   .04560   .01230   .04560   .01230   .04560   .01230   .04560   .01230   .04560   .01230   .04560   .01230   .04560   .01230   .04560   .01230   .04560   .01230   .04560   .0	1.93			5530	06610	01950	04810.	.00190	.25230	06110.	.04530	.07980	.08460
3.9CO 163700555002302 0.1560 .23960 .01270 0.04940 11.220 1.1221002250 .01230 .01220 0.04960 11.220 0.1221002250 .01290 .01220 .01230 0.04960 11.220 0.12200 .01230 .01230 .0123012160002240 .01290 .01290 .01230 .01230 0.0496010290 0.01300 .01220 .01230 0.0496010290 0.01300 .01240 0.04960 .01220 0.04960 .01220 0.04960 0.01300 0.04960	1.92			9280	.01729	02040	.91519	05100.	. 24820	.01230	.04670	.07780	. 08420
6.473         .33550        12210        C2250        C3131        00920        23530        C12210        C2250        C3133        C4660           8.889         .47730        1730        C2240        C1250        C2250        C1230        C1230        C460           1.11,270         .60180        1730        C2240        C1512        C0090        C1260        C1060        C1260	1.947			6370	05850	02300	.01563	. 02060	.23960	.01270	04840	.07980	. 08280
8.980         .47730        17930        02480         .01290        20590         .22550         .01230         .04700           11.270         6.6180        21660        02930         .01510        00090         .21820         .01230         .04720           -1.000        14990         .08770        01780         .01400         .20230         .22720         .01240         .04720           GRADIENT        06503        00930         .00030        00094         .00030         .00039 <td>1.97</td> <td></td> <td></td> <td>3350</td> <td>12210</td> <td> 02255</td> <td>.0:312</td> <td>00020</td> <td>.23630</td> <td>.01220</td> <td>. 04560</td> <td>. 08023</td> <td>04180</td>	1.97			3350	12210	02255	.0:312	00020	.23630	.01220	. 04560	. 08023	04180
11.270   .60180  21660  02930   .01513   .24720   .01300   .04960   .01300   .04960   .01000   .04960   .01000   .04960   .01000   .04960   .01000   .04960   .01000   .04960   .01000   .04960   .01000   .04960   .01000   .04960   .01000   .04960   .01000   .04960   .01000   .04960   .01000   .04960   .01000   .000000   .00000   .00000   .00000   .00000   .00000   .00000   .000000   .00000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000   .000000	1.0%7			7730	:7530	52480	.01293	55693	. 22550	,01230	.04200	. 08470	.07760
-1.000 - 1.499008770017800140002320247200124000420224400147026130004200042022440014702623000420004200042022440014700546001470262300127001	1.0%7			0180	21660	02930	.01510	-, 00090	.21820	. 01300	. 04960	. 08420	.07570
GRADIENT         DGEGGG        02835        00094         .00019        00199         .00009         .00032           ALPMA         CN         CLM         CY         CVM         CBL         CAF         CABO         CABO           -19.00         -1.24470         -50190        00950        00950        00960        22440        01470        05600           -12.00        26300        00950        00960        26490        01470        05600           -12.00        26300        26230        00950        00960        26490        01470        05600           -12.00        26300        26230        01270        01270        01560	1.047		•	£993	07790.	01780	.01400	. 09230	051ぞ.	.01240	.04720	.08210	.08710
ALPHA         CN         CLM         CY         CYN         CBC         CAF         CNB         CAF         CNB         CAF         CNB         CAF         CNB         CAF         CNB         CAF         CNB         CABO           -14, 850         -1.24470         -50190        00950         .00820         .00660         .22440         .01470         .05600           -12, 020        96300         .38470        00930         .00870         .26520         .21470         .01470         .05600           -9.140        70740         .26230        01670         .01870         .01870         .01870         .05640         .05640         .05640           -6.400        70740         .26230        01870         .01870         .01870         .01870         .05640         .06500 <t< td=""><td></td><td>GRADIEN</td><td></td><td>6503</td><td> C2835</td><td>00094</td><td>61000.</td><td>00030</td><td>00198</td><td>60000.</td><td>. 00032</td><td>00013</td><td>00038</td></t<>		GRADIEN		6503	C2835	00094	61000.	00030	00198	60000.	. 00032	00013	00038
ALPHA         CN         CLM         CN         CN         CN         CAF         CAF         CABO         CABO           -19,850         -1,24470         -50190        00950         .00820         .00660         .22440         .01470         .05600           -12,020        96300         .38479        00930         .00879         .00650         .22440         .01470         .05600           -9,140        70740         .22230        01270         .01370         .26450         .01430         .05640           -6,400        70740         .22230        01870         .01370         .27290         .01320         .05640         .06500           -1,060        79420         .11750        01950         .01240         .27290         .01270         .06500         .04500           -1,060        79420         .01190         .01340         .27390         .01210         .01210         .00120         .27390         .01210         .04650           -1,060        7940        01390         .01360        00200         .01210         .001210         .001210         .001210         .001210         .00220         .01210         .00420         .00220         .001			-	PCN NO.	ì	RW/L .		ADIENT INTERN	VAL5.00				
-1. 850 -1. 24470	MACH	APPLA			S.	Š	CAS	<b>8</b> 5	CAF	CNB0	CABO	CABS	CABE
-1.2.020	1.196		•	1470	.50190	00950	.00820	. 00660	04422.	.01470	. 05600	.08500	07550.
- 4000.	1.196			6300	38479	00930	00873	. 05820	.25130	.01430	. 05450	00680	03+50
-6.400469401956001550	1.198			01/0	.28230	01270	.01130	04400	.26450	.01320	0.050+0	. 08350	.08970
-3.7%?9420117500190001300140012001200120012001200450012001300120013001200240013001300120024001300130012002400240013001300030014001400	1.196			0-6	. 19580	01560	. 31290	.00270	. 26720	.01270	.04850	. 08030	04580
-1.06010760 .0449001950 .01330 .00020 .27860 .01210 .04630	- 196			9420	11750	01903	G77:0.	9×100°	.27290	.01220	. 04650	.07750	.08730
1.460 .050700180002205 .01310 .00030 .27350 .01210 .04610 .04610 .04610 .02205 .208200660002430 .0136000340 .26850 .01190 .04530 .04530 .05570 .372401472002390 .0115000080 .26000 .01200 .04570 .04570 .0120 .01200 .04570 .0120 .01200 .04570 .01200 .01200 .04470 .01200 .01200 .04470 .01200 .04470 .01200 .04470 .01200 .0420002030 .01200 .04200 .01200 .04540 .01200 .04540 .01200 .04560 .01200 .00003 .00003 .00003	1.196		•	0760	06+40	21950	.01339	.00120	.27860	.01210.	.04630	.07570	. 08560
3.980 .208200860002430 .0136000340 .28850 .01190 .04530 .04530 .0570 .372401472002390 .0115000080 .28000 .01200 .04570 .04570 .01200 .04570 .011002052002510 .01100205200310 .0110020580 .01170 .04470 .01270 .20330 .01270 .04570 .01270 .04570 .01270 .04570 .01270 .04570 .01270 .04570 .01270 .04570 .01270 .04570 .01270 .04570 .01270 .04570 .01270 .04570 .01270 .04570 .01270 .04570 .04570 .01270 .04570 .04570 .01270 .04570 .	1.198			5070	01800	02200	.013:0	.00030	.27350	.01210.	.04610	07540	. 08520
6.570 .372401472002390 .0115000080 .26000 .01200 .04570 .04570 .01200 .01200 .04570 .01200 .01200 .04570 .0110 .0470 .011002052002510 .0110020520 .01170 .04470 .0157000370 .25380 .01170 .04470 .04620 .011.550 .660102476003310 .0157000370 .24380 .01210 .04620 .0120 .0460 .0120 .04500 .0120 .04600 .04600 .04600 .046000007000003000150000150001500015000150001500015 -	1.196			0850	09600	02+30	.01360	0.000	.26850	.01190	.04530	.07650	.08210
9.120 .521102052002510 .0110300200 .25580 .01170 .04470 .011550 .660102475003310 .0157000370 .24380 .01210 .04620 .1.04010070 .0432002070 .01420 .00083 .27840 .01220 .04640 .01200 .04640 .00080064880623000710001000024000700000300015 -	1.196			7240	14720	02390	.91150	00080	.26000	.01200	.04570	02820	.08203
11.550 .66010247500310 .0157000370 .24380 .01210 .04620 .01.04010070 .0432002070 .01420 .00081 .27840 .01220 .04640 .01200 .04640 .01200 .04640 .01200 .04640 .0120000070000700000300015 -				2110	20520	02510	C0110.	00200	.25580	.01170	.04470	.07990	.07+50
-1.04010070 .0432002070 .01420 .00083 .27840 .01220 .04640 .04400 .04400 .04400 .0440000012 -	1.196			9010	2×760	03310	01510.	00370	.24360	.01210.	.04620	.08190	.07*70
.0648802623000710001000024000700000300015	1.196		•	0000	.05350	02070	.01420	.00083	.27840	.01220	04940	.07600	.09603
		GRADIEN1		88+9	02623	1.0007	00010	+≥000°-	00070	00003	00015	00013	00062

. 10250 . 09730 . 09380 . 09380 . 08580 . 08460 . 08470 . 07770 . 08710 . 08710

. 09570 . 09420 . 09420 . 08940 . 08730 . 08560 . 08210 . 07450 . 07450 . 00603

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DATE 06 OCT 75	2CT 73		TABU	LATED SOURCE	TABULATED SOURCE DATA, MSFC THT BER (TALES)	THT 822 11	(S214)			PAGE	X 33
			¥	FC TWT 622	MSFC THE 622 (TA125) LAUNCH VEHICLE, 74 OTS	H VEHICLE.	7. 0TS		(RINOII)	_	29 HAY 75 )
	REFER	REFERENCE DATA						_	PARAMETRIC DATA	: DATA	
• 386 t	2690.0000		•		•			_	000.		10.000
LREF BREF SCALE	1290.3000 INCHES 1290.3000 INCHES	INCHES YHERP	9	.0909 IN. YT 400.0000 IN. ZT	<b>.</b> .			ELV-0R .	000	ELV-IR	98.
		RUN 40.	0. 141. 0	RN/L -	6.43 GRA	GRADIENT INTERVAL .	NAL5.00/	90. 2.00			
PACH	ALPHA	3	ş	Շ	CYN	95	SA.	<b>60</b>	CABO	CABS	CABE
1.465	-14.820	-1.20840	0906h.	00560	.00%70	. 00650	.29510	.01110	.04220	.06330	.07300
1.465		9+720	.37640	0.600	.00560	.00510	.29380	0.010.	.03960	. 06410	.07030
1.465	-9.180	70009	.27430	00850	00430	00*00	. 29280	.01000	.03820	.06210	.06870
1.465	-6. 420		. 18660	01530	.00730	. 00280	. 29360	06600.	.03770	.05910	.06610
1.465			.1:030		. 00520	. 00250	. 29320	08600.	.03740	.05530	. 06453
. <del>. 6</del> 5	-1.090	11320	.04200	01660	. 30870	.00120	.29620	0.00970	.03680	.05320	. 06343
1.465	1.520	.05290	01830	01860	.00863	.00020	.29580	. 00960	.03650	.05250	.0630
1.465	4.050	. 19620	07180	01990	.00840	00080	. 29333	0.600.	.03570	.05470	.06310
1.465	6.590	34400	12680	02260	00860	00170	.28950	0.600.	.03560	. 05590	. 06280
1.465	9.180	.49650	-, 18359	02330	. 00950	00240	. 28350	.00923	.03520	.05630	04190
1.465	11.660	.63970	22270	02710	.00960	00290	OLT.	.00920	.03520	.05730	06030
1.465	-1.030	10270	.03870	01600	01800.	.00130	.2967	.00960	.03680	.05320	06340
	GRADIENT	. 06288	02333	00112	.00038	00043	.000.	00005	00021	00010	00018
		PUN NO.	0. 153/ 0	FIN/L .	5.13 GRA	GRADIENT INTERVAL =	WAL = -5.00/	00/ 5.00			
TACH.	A PHA	8	5	Š	, A	195	CAF	0 <del>9</del> 60	CABO	CABS	CABE
2.740	•	73870	0488€.	06000	00020	. 00260	. 28930	.00390	06*10	. 02560	.03110
2.740	9.6-	60780	.23680	00060	06000.	00540	.26020	. 00430	.01630	. 02580	.03160
2.70	-7.610	47960	. 18850	00090	.00160	.00210	05075.	.00420	.01600	.02640	.03180
2.70	-5.290	3+960	. 13880	00210	04100.	. 00130	.26060	04400.	.01690	. 02650	.03180
2.70	-2.980	22950	029630	00380	.00270	.00120	. 25600	.00450	.01730	. 02500	.03050
2.70	-,680	12080	.05270	00360	.00230	.00100	. 25290	.00460	.01770	. 02550	. <b>0286</b> 0
2.36	1.570	02440	.03+50	00530	. 00300	06000.	066≯2.	.00470	.01830	. 02560	.02750
2.70	3.830	.07870	00380	00590	. 00260	.00030	0.49.4°	.00470	.01800	.02550	. 02650
2.7°0	6.130	. 19250	04350	00610	. 00250	0,000.	.24270	00*00.	.01820	. 02*90	. 02550
2.740	C 5 5 . B	.31040	08750	00450	-, 00050	06000.	.23910	00460	.01830	02520	.02460
2.70 7.0	10.620	060£4°	13340	01030	. 00250	00160	. 23510	.00470	.01790		. 02380
2.740	630	10650	.05730	00540	.00320	.00000	5	.00476	.01780	9	.028:0
	GRADIENT	.04-503	-,01448	00035	₹0000.	00012	-,00140	.00003	11000.	00006	00059

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TABULATED SOURCE DATA, MSFC THT 622 (IAI25)

The second secon

PAGE Y

MSFC THT 622 (14125) LAUNCH VEHICLE, 74 075

(RIND12) ( 29 MAY 75 )

000.01

PARAMETRIC DATA	9ETA000 ELV-1L . ELV-0L 10.300 ELV-1R . ELV-0R030
	976.0000 IN. XT 0000 IN. XT
	XIARD YARD
REFERENCE DATA	SREF = 2690.0000 SQ. FT ) LREF = 1290.3000 !NCHES 1 BREF = 1290.3000 !NCHES 2 SCALE = .00%
	SORE PREF SCALE

Math			<b>3</b>	0 /001	PN/L	4.95 GRA	GRADIENT INTERVAL	VAL = -5.00	2.00			
-11.33073990 .2779400111890 .011080 .01131 .109590 .009590 .032310 .035310 .93960 .035310 .93960 .035310 .93960 .035310 .93960 .035310 .93960 .035310 .93960 .035310 .93960 .035310 .93960 .035310 .93960 .035310 .93960 .035310 .93960 .035310 .93960 .035310 .93960 .035310 .93960 .035310 .93960 .035310 .93960 .035310 .93960 .93960 .039310 .93960 .039310 .93960 .939310 .93960 .939310 .93960 .939310 .939310 .939310 .93940 .939310 .93940 .939310 .93940 .939310 .93940 .939310 .93940 .939310 .93940 .939310 .93940 .939310 .93940 .93940 .939310 .93940 .939310 .93940 .	¥Ģ	ALPPA	3	<b>5</b>	Շ	ž	퓽	CAF	CMBO	CABO	CABS	CABE
-9.380 - 599073	.600	-11.530	73090	.27040	01190	.01060	.01210	.09650	.00850	.03230	.06310	08480.
-7.131	.600	-9.380	59073	.21520	01510	.01180	. 91:30	.10560	.00810	.03080	.05970	0680.
	.600	-7.130	44793	. 15930	01620	.01190	.01070	.11590	.00760	.02910	.05510	.08310
-2.7502192C .0715002160 .0163E .00930 .12710 .00750 .02840 .05270 .05190 .05270 .00280 .05270 .05280 .05270 .05280 .05270 .00280 .05270 .05190 .05270 .00280 .05270 .05190 .05270 .00280 .05270 .00280 .05270 .00280	909	-4.970	- 3+090	.11670	01980	.01450	0.600	. 12270	.00770	. 02940	.05370	.07820
- 5-40 - 590-20 - 102280 - 102270 - 101620 - 102600 - 10270 - 10270 - 105100 - 105200 - 102280 - 1022	.600	-2.760	21920	.07150	02:60	.01630	. 60933	.12710	.03750	02840	.05270	07430
1.65C   .03×20   .02320   .02220   .01830   .01850   .12210   .00720   .02750   .05130   .05130   .05250   .16540   .01330   .01830   .0	929.	0. i	09020	.02280	52270	.91620	0:600	. 12600	.00720	37750.	.05190	.07150
3.8€5 :155190639003300 .01830 .00559 .11890 .00720 .02750 .05330 .05330 .05330 .05330 .05330 .05330 .05330 .05330 .05330 .05330 .05330 .05330 .05330 .05330 .05330 .05330 .05330 .05330 .05523 .05330 .05523 .05330 .05523	600	1.660	.03420	02320	02720	.01830	. 03853	.:2210	.00723	.02760	.05110	37176.
6.12€ 28292 -10890 -03390 .01926 .02810 .11170 .00690 .02650 .05030 .05030 .01926 .1282 .03530 .01765 .01720 .09730 .09590 .02650 .05250 .05250 .05250 .02820 .01720 .02830 .01650 .01720 .02840 .00830 .01650 .01720 .01720 .02840 .01840 .01018 .00943 .00020 .01720 .01720 .018	.600	3.860	01561.	06390	03000	.01830	.00850	.11890	.00720	.02750	.05030	.06950
6. 37C         .4:350         -15640         -0.3350         .0:75C         .09730         .09730         .05620         .0526	.600	J2∵.9	. 29295	10890	03390	02810.	0:800	0.1111.	.00690	.02650	.05030	.06720
10.420   .53330   .20790   .003950   .00750   .00909   .00530   .00520   .05220   .05220   .05230   .00220   .00230   .00220   .00230   .00230   .00230   .00230   .00230   .00230   .00230   .00230   .00230   .00230   .00230   .00230   .00230   .00230   .00230   .00220	.609	<b>8</b> .37€	.4:350	15640	03350	.0:750	. 33833	.09730	. 33590	. 92620	.05250	0,06640
502092300254002390 .01693 .00522 .12810 .00735 .02770 .05223  RAAPA CN CLM CLM CY CYN CBL CAF CN80 CABO CABO CABS  -13.16097050 .3771002080 .01600 .01170 .12930 .01750 .00730 .07320  -13.16097050 .3771002080 .01600 .01170 .12930 .01750 .00450 .07320  -13.16097050 .3771002080 .01660 .01170 .12930 .01750 .00450 .07320  -13.16097050 .3771002080 .01600 .01170 .12930 .01750 .00450 .07320  -10.72323930 .07280 .02290 .02290 .13600 .01170 .00450 .06850  -10.72029330 .07280 .02290 .02290 .14500 .01000 .03380 .06830  -10.72029330 .00230 .02280 .02290 .14500 .01000 .03380 .06830  -10.72029330 .00230 .02280 .02290 .19300 .01000 .03380 .06830  -10.72029330 .00230 .02280 .02290 .13750 .00990 .03390 .06830  -10.72029330 .00230 .02280 .02280 .00450 .13750 .00990 .03390 .06830  -10.72029330 .00230 .02280 .02280 .00450 .13750 .00990 .03390 .06830  -10.720 .00330 .00230 .02280 .02280 .00420 .13750 .00990 .03390 .06830  -10.720 .00330 .00230 .02280 .02280 .00420 .13790 .00990 .03390 .00830  -10.720 .00330 .00230 .02280 .02280 .00420 .13790 .00990 .03390 .00830  -10.720 .00330 .00230 .02280 .02280 .00420 .13790 .00990 .03390 .00830  -10.720 .00330 .00230 .02280 .00030 .00430 .00090 .03390 .00830  -10.720 .00330 .00230 .00220 .00420 .13790 .00990 .03390 .00830  -10.720 .00400 .00330 .00230 .00030 .00420 .00090 .00330  -10.720 .00030 .00420 .00420 .00420 .00420 .00000 .00330 .00010  -10.720 .00400 .00300 .00420 .00420 .00420 .00000 .00330 .00010  -10.720 .00400 .00300 .00420 .00420 .00000 .00330 .00010  -10.720 .00400 .00300 .00400 .00330 .00010 .00030 .00030 .00030	.600	10.420	.53330	20780	03950	. 32040	.00760	06060.	.03573	.02540	.05180	J ₹ 490°
GRADIENT         .05630        02061        00118         .00043        00057        00065        00037        00037        00037        00038 <th< td=""><th>.600</th><td> 503</td><td> 09230</td><td>. 02540</td><td> 02390</td><td>.01693</td><td>02500.</td><td>. 12810</td><td>.00730</td><td>.02770</td><td>. 05223</td><td>.07150</td></th<>	.600	503	09230	. 02540	02390	.01693	02500.	. 12810	.00730	.02770	. 05223	.07150
ALPHA         CM         CLM         CV         CVN         CBL         CAF         CNBO         CABO         CABO </td <th></th> <td>CRAD1E~</td> <td>. 05630</td> <td>02061</td> <td>00118</td> <td>€+000.</td> <td>00014</td> <td>03057</td> <td>00006</td> <td>000-1</td> <td>00338</td> <td> 00090</td>		CRAD1E~	. 05630	02061	00118	€+000.	00014	03057	00006	000-1	00338	00090
ALPHA         CN         CLM         CY         CVM         CBL         CAF         CNBO         CABO         CABO           -13.160        97050         .37710        02360         .01600         .01170         .1240         .07720         .07720           -10.720        76800         .29770        02350         .01860         .00910         .13630         .01170         .04790         .07320           -8.120        76800         .29370        02360         .01860         .00910         .13630         .01170         .04790         .07320           -8.120        76800         .28170        02490         .02640         .00650         .01100         .04980         .07320           -5.640        53910         .14290        02790         .02270         .02650         .01050         .01050         .04360          5320         .07580         .02270         .02520         .02520         .0950         .01000         .03880         .06240          600        08320        03130         .02220         .02450         .14300         .01000         .03800         .06240          600        08360        03240         .02220			3	9			GTAL TATES	4				
ALPHA         CN         CLM         CY         CNL         CAR         CAR <th></th> <th></th> <th>3</th> <th><u> </u></th> <th></th> <th></th> <th>olen: ivien</th> <th></th> <th>90.</th> <th></th> <th></th> <th></th>			3	<u> </u>			olen: ivien		90.			
-13.16097050 .3771002080 .01600 .01100 .12930 .01260 .0v790 .07520 .07320 .010.72076800 .2937002350 .01860 .00910 .13630 .01170 .0v450 .07320 .07320 .98320 .01100 .02040 .02040 .02040 .01050 .01100 .0v450 .00380 .0	MACH	ALPHA	3	5	5	CYN	CBL	CAF	CNBO	CABO	CABS	CABE
-10.720769002937002350 .01860 .00910 .13630 .01170 .04450 .07320 .07320 .98.12057272 .2128002780 .02640 .02650 .11860 .01100 .04180 .06850 .06850 .01100 .04180 .06360 .06360 .03520 .14140 .01050 .04000 .06360 .06360 .03520 .03880 .01050 .03880 .05320 .06140 .03880 .03880 .03880 .06270 .03880 .06270 .03880 .06270 .03880 .06270 .03880 .06270 .03880 .06270 .03880 .06270 .03880 .06270 .03880 .06570 .06090 .03890 .06570 .05270 .03890 .05270 .05090 .0	669	-13.160	97050	.37710	02080	.01600	.0110	. 12930	.01260	.04790	.07520	. 10220
-8:129 - 57270	<b>668</b>	-10.729	76900	. 29370	02350	.01860	01660.	. 13630	.01170	05+70.	.07320	. 09680
-5.64039910 .1429003120 .02210 .00530 .14140 .01050 .04000 .06360 .05360 .3.22223330 .0768003280 .02250 .00450 .14630 .00920 .03530 .06140 .06210 .03280 .02250 .00450 .14630 .01020 .03380 .06210 .05210 .02230 .02230 .02230 .01020 .03820 .05290 .06200 .01020 .03820 .05290 .05290 .05290 .05290 .03290 .05290 .05290 .03290 .052	668	-8.120	57270	.21280	02780	. 02040	. 20653	. 13850	00110.	. <del>9</del> 180	. 06850	.09150
-3.222330 .0768003280 .02250 .00450 .14630 .00920 .03330 .06140 .06210 .09330 .00230 .06210 .09330 .06210 .09330 .06210 .09330 .06210 .09330 .06210 .09330 .09330 .06210 .09330 .09330 .09330 .06210 .09330 .09330 .09330 .06330 .06210 .09330 .09330 .09330 .06330 .06330 .06330 .09330 .09330 .09330 .09330 .09330 .09330 .09330 .09330 .09330 .09330 .09330 .09330 .09330 .09330 .09330 .093310931109360 .09330 .09330 .09330 .093310931109380 .09330 .09330 .093310931109330 .09330 .09330 .093310931109330 .09330 .09330 .093310931109330 .09330 .09330 .09330 .09330 .09330 .093310333000330003300033000330003110033000330003300033000311003300033000330003300033100330003000033000330003000030000300003000030000300 .	<b>668</b>	-5.6±0	39910	14296	03120	.02210	.00530	07171	.01050	00040.	. 06360	.08710
890089390023003130 .02050039401430001020038800621006210 14300 14300 14300 14300 14320 .	668	-3.223	23930	.07680	03280	. 02550	. 00450	. 14630	.00920	.03530	04190	.08360
1.603 .093900712303210 .02020 .03390 .14090 .01000 .03920 .06090 .06090 .06090 .05030 .06090 .05030 .06090 .05220 .	<b>568</b> .	008	08030	.00230	03130	. 02050	02*30	. 14300	.01020	.03880	.06210	08340
6.440 .358301594003740 .02220 .09470 .13750 .00990 .03790 .06090 .06340 .06350 .06370 .06570 .06570 .06570 .064490 .06440	668	1.603	. 08380	07129	03210	.02020	09800.	060*:	00010	.03820	06090	.08203
6.440 .358301594003660 .02390 .00430 .13290 .01000 .03900 .06340 .06630 .	<b>66</b>	. G03	0.615.	12070	03740	. 02220	02400	.13750	06600.	.03790	.06090	.08060
6.860 .484901931003780 .01900 .00429 .13340 .00940 .03570 .06570 .06570 .13140 .13140 .00940 .03570 .06510 .06510 .11.130 .618602471003400 .01500 .00350 .14480 .01010 .03860 .06170 .06750 .04860 .01010 .03860 .06170 .04860 .01010 .040614 .05760057600576005760 .00050 .00050 .00050 .00050 .000511 -	<b>66</b>	6.440	.35830	15940	03660	05020.	.00430	. 1 3290	.0100	.03800	.06340	.08103
11.130 .6186.32471003400 .01500 .00350 .01570 .00990 .03790 .06510 .0510 .05100 .03860 .01010 .03860 .01010 .03860 .01010 .0870 .06170 .0480 .01010 .03860 .08170 .0480 .01010 .057500575005750 .0005 .000518 .00058 .0003005011 -	668	<b>8</b> .880	C6+8+.	19310	03780	00610	.00423	. 13340	07600.	.03570	.06670	.07850
760073000013002760 .01770 .00450 .14480 .01010 .03860 .06170 .0480 .000130000110480 .00013000011000118 .00008 .00013000011	<b>668</b>	11.130	.61863	24710	03400	.01500	.00350	. 12370	06600.	.03790	.06610	.07673
- 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	660	. 760	67300	00130	02760	.01770	.00+50	14480	.01010	. 03860	.06170	.08260
		GRADIENT	₽. 20	02768	00061	00005	.0000	00118	90000	. 00030	11000	00043

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DATE 06 OCT 75	87 73		7	MOLLAN	TABULATED SOUNCE DATA.		MSFC TWT 622 (:A125)	. A135			PAGE	8 8
				3	TWT 622 (	14125) LAU	MSFC THT 622 (14125) LAUNCH VEHICLE, 74 075	270 S		(RINOIZ)	~	29 MAY 75 )
	NEFERE	ENCE DATA								PARAMETRIC DATA	: DATA	
SCALE STATE	2690,0000 1290,3000 1290,3000	SO. FT XH INCHES YH INCHES ZH	e control	976.0000 .0000 .0000	00 IN. XT				BETA • ELV-GL • ELV-OR •		ELV-1L • ELV-1R •	10.000 .000
		<b>2</b> 6	MO. 1037 0	0	אאיר י	6.52 G	GRADIENT INTERVAL .	IVAL5.00/	90. \$.00			
MACH			2		5	Z.	뚕	CAF	<b>9</b>	CABO	CABS	CABE
-9.		•	•	8	09490	.00780	.01280	.22580	.01510	.05750	. 09220	.10280
5	•		•	ğ. 1	00520	.00770	01110	. P+190	.01350	.05150	.09120	.09700
3 2		- 63690	D11100	P 6	- 00520	0.000.	.01070	.25230	.01260	00€40.	. 08690	05160
6			•		2002	02/00.	00000	DEICE:	0.00	01/40	01480	. 08963
.9				2 2	01550	09600	06800	09252	מפונט.	05040	. 08020	00000
1.0%	1.440	.021£0	93010	01	0.7.0	.01000	.00720	0,9,4	01210	04940	07760	00.00
1.0%7	3.910		07656	0.0	01950	.31360	. 00640	.23700	. 91290	00640	09620	00+80
1.0%	6.460		13670	37.	02150	06600.	. 00500	. 23890	.01190	04540	07740	07940
.9.	8.980		18483	69	02380	.01000	.00420	.22510	0.210.	01740.	.08230	.07830
87	11.270	.61420	23200	8	03030	.01420	.00380	.21870	.01320	0.050.	.08120	.07780
- 2 - 2	960	13220	.07160	60	01530	. 00920	. 00820	.24650	.01220	.04660	.08230	.08730
	GRADIENT	.06399	92766	<b>9</b>	00093	.00021	00034	00238	¥1000.	-00052	₹10001	00026
		PCN NO.	MO. 102/ 0	0	RN/L .	6.6 9.0	GRADIENT INTERVAL5.00/	VAL5.0	0/ 5.00			
MON	AL PHA	3	บี		Շ	N.	8	3		CABO	CARC	JONE
- 193	-14.860	-1.23030	. 48830	20	00730	00400	.01150	.23570	09,10	.05830	.08760	0.7.60
661.1	-12.010	9+590	369+0	Ç	00750	.00580	.01050	.26190	.01380	.05250	.08730	01160
	-9.120	68990	.26600	8	00930	06600.	01600.	26×70	.01330	.05070	.08500	.09020
<b>8</b>	-5.380	47160		5	01280	. 30760	07700.	.25860	.01250	.04770	06080	.08950
<b>2</b>	-3.700	27100	00860 .	8	01630	.00860	.00630	.27490	08110.	036Z	.07800	.08750
8.	<del>-</del>	09000	. 02930	30	01910	0.010.	. 00530	. 28120	.01160	04410	00570	.08390
<u>8</u>	2 - 180 - 180	. 07060	03450	Š	01870	.00830	.00*60	. 27660	.01150	0+380	05-70.	.08280
<b>8</b>	. 000	.22180	03660 ·-	8	02150	. 00860	. 00380	3469Z	.01170	.04450	07570.	.08150
<b>8</b> :	9.0	0000	16043	ç ;	05050	.00630	. 00300	. 26290	.01170	05+10.	07770.	. 09000
8.	9.130	ON THE ST	218CD	8	02580	.00733	.00170	.25810	.01150	.04370	. 07880	.07310
8	11.570	55.76	25040	ç	- 07 <b>9</b> 50	01110	01100	. 24430	.01160	0.510	.08100	.07370
<b>S</b>	-1.010	08080	. 02593	6	01800	. 20890	0.500	.27960	.01180	06110.	.07600	.08510
	CHIAD I EN	. 06397	. 0253	s S	00061	00010	00031	00001	00003	0001≥	00016	00075

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DATE 06 0CT 75	ř ř			TABLE	NTED SOUPCE	DATA, MSF	TABLEATED SOLPCE DATA, MSFC THT 622 (IA125)	A123)			PAGE	<b>8</b>
				ş	THT 622	TAIRS) LAUN	45FC THT 822 (TA125) LAUNCH VEHICLE.	₹ 01S		(RINDIZ)	2) ( 29 NAY 75	ě E
	REVER	ENCE DATA	4							PARAMETRIC DATA	DATA	
136	2690.0000	% FT	ž.	28.	976.0000 IN. XT				BETA •	000.	ELV-11 •	10.000
SCALE .		INCHES		0000.00%	.0000 IV. Z*				ELV-08 -	900.	ELV-IN E	20.
		£	RN 160	143/ 0	BN/L .	6.4	GRADIENT INTERVAL -	WAL5.00/	0/ 5.00			
MACH	AL PHA	8		5	Շ	Z.	룡	CAF	084S	CABO	CABS	CABE
	-14.800	-1.19070	070	.47650	00340	. 00260	.01020	29450	.01:10	04540	.06380	.0737
. 465	-12.050	93370	370	. 36410	30540	.00130	. 09920	.29580	0,0:0.	. 03973	04490.	7070.
1.465		·	0:0	25242	- 20493	08000	.00730	.29680	.01010	03840	. 06250	. 0685
1.465			340	. 17773	2:153	. 02293	. 00599	. 29500	.0100	. 03800	. 05980	. 0562
1.+65	-3.730		550	.10150	00850	00:00	0.00240	.29500	06600.	37750.	.05719	7750.
1.435	•	•	800	03140	1.01400	C8+C0.	04:00	. 29830	0.600.	.037:0	. 05310	. 0532
1.455			.06250	02690	3:590	07763	. 00330	. 29850	09600.	.03670	. 05410	. 0525
1.465	4.070		21120	CB370	31723	6770J.	. 22260	. 29600	0~600.	.03600	. 05600	.0529
1.465	6.640		359-0	13900	0:9:0	.00493	. 00180	29420	00630	03240	. 05683	. 0619
1.465	9.220		.53780	19350	52110	. 20550	. 03050	. 28660	.09983	. 03520	06750.	.0508
1.455	11.680		.65370	23v:0	32493	. 50520	01000.	.28:10	02650.	. 03530	. 05763	. 2605
1.465	-1.320	•	. 09230	.03000	0:230	. 26362	08400.	0:662	0.600.	.03590	.05490	.0632
	GRADIENT		.06321	02365	00112	.00038	_£003	£1000.	-, 00006	00021	00017	0092
		œ	RUN NO.	154/ 3	- 1. XF	5.13 CA	GRADIENT INTERVAL5.00/	NAL = -5.0	9/ 5.00			
Ž	4.74	Š		110	Շ	ž	<sub>හ්</sub>	CAF	CBN	CA90	CABS	CABE
2.70	-12.140	73580	98	.28620	. 30160	00099	00,00	0+062.	.00390	06*10.	.02590	£3.
2.70	-9.9.0	60820	850	.23670	. 00000	. ၁၁၁۹۹	0.003.	.28150	00450	.01630	.02610	.031
2.70	-7.590		00+	. 18+30	00030	02000.	06500.	.27110	. 00420	.01510	. 02660	.0318
8.7°			670	. 13770	03063	. 00023	.00260	.26150	04400	.01690	. 02560	.0317
0۲.۶	•		930	.09570	00250	.00100	. 00260	.25530	. 00450	.01730	.02640	.0306
8.7.0	.660	•	080	.06310	~.00020	20069	.00310	25350	.00460	07710.	.02580	.0285
2.2	1.570	•	570	.03300	09680	.00330	. 00130	.25070	.00470	.01790	. 02580	.027 *
2.70	W. 950		.08300	00670	00%60	. 00190	.00190	057.5°	. 00470	.01790	. 02550	1920·
2.73	6.150		. 19760	04850	00420	00020	.00250	. 24.480	00.40	0:8:0	. 02530	. 1832 1832
2.70	0.470		31440	0.060	03190	- 00400	. 00260	<u>v</u>	.00480	.01830	. 02590	.0242
2.70	10.630		.43830	13870	00570	00270	.00170	. 23850	. 00470	.01780	. 02550	-053g
2.70	٠.62	•	310	. 05550	- 0098C	.00500	. 00080	25500	.00460	.01780	.02580	.0280
	DENDIENT	.04562	ž	01496	00056	.00017	00017	00115	.00003	60000.	00011	0006

CABE 07370 07070 07070 05650 05540 05550 05550 05690 05690 05690 05690

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CABE . C31 10 . 03150 . 03170 . 03170 . 02850 . 02740 . 02860 . 02860 . 02860

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DATE 96 OCT	ę t		TABLA	TABLLATED SOURCE DATA.		HSFC THT 622 (IA125)	133			PAGE	F 3
			355	TWT 622	14125) CAUR	MSFC THT 622 (1A125) LAUNCH VEHICLE, "	₹ 015		(R1M013)	3) ( 29 HAY 75	, St >
	REFERENCE	ENCE DATA							PARAMETRIC DATA	DATA	
									C		15,000
	2690.0000	L	976.0	ż				4	900		666
 קינו	1290.3060 INCHES	INCHES 1999	0.00	.0000 IN. Y				ELV-08 •	000		
ı B	.00+0										
		RUN NO.	115/ 0	PN/L	86.3	GRAC 'ENT INTERVAL .	VAL5.00/	9. 5.00			
•	į	3	8	č	C	ŧ	Ç NÇ	<b>9</b>	CABO	CABS	CABE
		5	- COLUM	0.6910	01860	06100	10260	. 00930	.03550	. 06330	00880
§ 1	910:11-		3	02320	02570	04000	11090	00870	.03340	.05900	02.00
ë ë			09961	-, 02230	.02000	01000.	.11370	.00870	.03330	.05620	.06250
5	26.1.4		07/41	02670	08340	000€0	12550	0.800	.03190	.05280	.07519
5	7		01660	02920	. 02350	00110	1,2630	.00830	.03150	.05300	3/2/0
8	200		05710	93020	. 02340	00:10	.12380	. 00830	.03160	00150	07170.
S S	0.6.		01133	03370	02450.		. 12230	.00790	.03000	.05160	01040.
5	250. 1		030+0	03430	05-20	00200	.11680	01800.	. 0307	.05200	.06863
§ 3	90.4		07070	-,03959	07520	00310	.10720	.00790	. 03000	.05390	.06712
6	0.00.0		- 11280	04123	02.50	01400	07770	.00750	. 02869	.05620	. 06523
8	9 5		- 1675	-,04010	.02310	00370	0.1280	07700.	. 02930	.05780	. C6589
8		•	05820	03030	.02360	00280	12420	. 60610	.03100	.05360	5:170.
	CRAD'ENT		01961	90395	91000.	÷.00015	00136	00002	B1000'-	00c2v	00060
		3	2	BN/L	8	GRADIENT INTERVAL .	WAL5.00/	90. \$ .00			
				ı			1		9	8	784
Į.	RAM	3	รื	Շ	¥	_	3			0000	09790
.903	-13.230	0-1.01120	.¥11 <b>8</b> 0	02630	. 02210		00851	0000	OCE TO	05820	08820
.803	-10.730	_	32080	03260	0.550.	•	0077	0010		06560	.08550
E 06	961 · <del>T</del>	•	0011	03620	06/20.	•	9	9010	060.0	06150	01,480
. <b>903</b>	₽¢	_	. 17390	. 039*0	.02830	00300			0.60.0		0.640
.903	-3.260		. 10220	03830	. 02790	•		Capero.	03720		07580
.903	-	•	. 02.630	03903	05/20.	90416	999	0900	03650		.07553
28	- 35 -		- 04960	- G-184	05/20.		000	02000	03560		.07350
.88	8. W		0-2060 · -	09,40	00000			0.600	.03580		.07673
. 903	9.380		P. 1	COPPO -	0.00		, i	01000	04540	04790.	.07+60
.903	<b>9</b> . <b>0</b> 30		16620	0.6870	0 K		5104		03060	09998	.07133
. 903	1.090		2.21872	0.000	06550		02.61	06500	.03780		.007700.
.903	0.00°	09/01	0.000.	06000	80000		00028	00010	0003 <del>-</del>	•	00075

2ATE 06 OCT 75	ž Š			TABLA	TABLE SOUNCE DATA,		MSFC TWT 622 (1A125)	A125)			PAGE	99 14
				¥	TWT 622	IAIZS! LAUN	MSFC THT 622 (TATES! LAUNCH VEHICLE, "	₹ 0fs		(R1M013)	3) ( 29 HAY	۲ د الا
	REFERENC	PENCE DATA	<							PARANETRIC DATA	DATA	
SCALE .	2690.0000 SQ. 1290.3000 INC 1290.3000 INC	SO. FT INCHES INCHES	8	976.0000 • 900.0000	0000 14. XT				BETA ELV-OL ELV-OR		ELV-11 •	. coo
		•	9	112/ 0	- 7/Aut	6.53 GA	GRADIENT INTERVAL .	VAL5.00/	97 5.00			
MACH	APA	8		2	ŏ	\$	ď	CAF	CABO	CABO	CABS	3673
1.048	-14 190	7	19090	.52505	00600 -	02410	. 00350	. 22930	01910	. 06:50	. 09260	10450
. 0 <b>48</b>	-11.500		363	08017	- 0::20	06410	. 33210	. 23993	01710	.05390	01160	10170
8.0°	-6.790	•	27.5	.31500	באונו ואונו	.01620	00100.	.25:20	CE 10.	. 05050	.08570	01150
<b>6</b>	- <del>6</del> 163		230	٠.	51750	21690	04003.	0.4854	06210.	06840 ·	.08230	025B3.
- 2- - 2-	-3 620	•	0 ( 0 )	.16-6	02230	026:0.	05000	0.4555	01280	06840.	09060	05880
6.70°	-1.050	•	9	566.	3235.	. 01950 000:0	28000	00000	. 31250	500	09870	09990
- 930 - 930	1.433	•	570	C3780	OP-65	.0:863	33160	. 25:80	01280	000000	03920	00000
1.94a	3.890		16983	05830	- 32653	. 01950	53800	33270.	.01330	.05050	0.950	09480.
<del></del>	6.420		31563	111183	02793	.0:630	00193	. 232-3	047.0.	. 05090	04580 ·	. 18543
<b>9</b>	8.976		.5/L+.	17160	- C5683	.0:550	-, 56193	C+622.	.01700	09640.	06480.	. 27763
8-0·1	11.280		.60330	2:780	03603	010201	-, 00250	.22150	. 01399	05840	. ce+63	540
<del></del>	-1.020	0:63:0	310	.09860	7.384:0	036:6.	~.≎coeo	.24880	.01330	CSG-D.	. 08130	. 69860
	GRADIEN		.06654	2-620∵-	90056	00015	00016	00166	.0000	92000.	00021	03047
		œ	RUN NO.	113/ 0	- 1/Na	. 6. 64 6. 64	GRADIENT INTERVAL .	VAL5.00/	0/ 5.00			
¥0	A PA	č		ī	Ç	Ü	<b>5</b>	CAF	OBNO	CABO	CABS	CABE
1.205	14 950	-	089	.51820	916+0	.01380	. 50300	DT C+5.	.01500	.05700	.08510	. 09500
1.205	-12.090	098070	070	. 39950	01420	06£ 10.	0.500	. 26693	07710.	. 05490	. 08+30	.09150
1.205	-9.199	01757 0	017	. 29540	01830	.01600	.00123	. 25830	.01380	. ၁5250	.08310	06060.
1.205	-6.430	050460	<b>₽</b> €0	.20690	01980	01910.	.00030	.27520	.01290	C5340.	05840.	. 08850
1.265	-3.760	030500	500	. 12650	CP. 10	.01950	60080	. 28060	.01250	04740	.07520	04980
1.205	-1.116	5 12585	587	05750.	02500	.01820	50120	. 28380	.01230	.04580	.07300	. 08450
1.205	1.430		.03750	00910	02700	.01750	00210	. 28240	.01220	34940.	.07180	. 08260
1.205	3.950		19210	07493	02880	.01800	00230	27580	.01220	04940.	. 07390	. 08150
. <del>2</del> 05	6.530		.35750	13830	02930	.01540	00250	.26590	.01230	06940	07650	.08150
1.205	9.090		.51420	202-0	02970	.01470	00350	.25930	.01220	.04650	.07910	.07640
1.205	11.55		.660ET	24910	03530	.01770	00100 -	.24B20	.01260	04780	06080	07570.
1.205	-1.076	1	520	.05380	02*80	.01810	00110	. 28450	.01230	06940	.07320	02.480
	GRADIENT		.06455	026:2	00063	00020	00021	00061	÷0000 · -	00013	00020	10065

• • • •								91.0		E 107107		, ,
				135	MSFC TWT 622 (IA125) LAUNCH VEHICLE, 74 0TS	IA125) LAUN	CH VEHICLE.				3) ( 29 PAY 75	0
	REFERENC	ENCE DATA	۲							PARAMETRIC DATA	: DATA	
	2690.0000 SQ. 1290.3000 INC 1290.3000 INC	SO. FT INCHES INCHES	XHRP YHRP ZHRP	976.	976.0000 IN. XT .0000 IN. YT 400.0000 IN. ZT				BETA ELV-OL ELV-OR		ELV-1L • ELV-1R •	.000
		4.	PGN NO.	0 /641	RN/L =	6.46 G4.6	GRADIE 4T INTERVAL	VAL5.00/	9. 5.00			
MACA	AL PHA	3		ij	Շ	ž.	턵	ن	OBNO CMBO	CABO	CABS	CABE
\$	-14.820	1.21170	1170	51564.	00870	.00630	00400	29730	06010.	04140.	00490	.07370
<b>\$</b>	-12.060		95150	.38090	01220	.00830	. 00340	.29650	.01020	.03900	.06380	.07030
- £	-9.180		70160	.27610	01170	04/00.	.00230	.29460	.01000	.03810	06190	0.06840
.464	-6.420		48800	. 18920	01850	.01030	.00130	. 29520	08600.	.03750	. 05850	. 06580
1.464	-3.750		29500	.11180	01460	01800	05000.	. 29450	. 00980	.03750	.05480	). C642G
1.464	-1.060		11220	.04250	01860	.01030	. 00030	. 29690	0.00970	.03690	. 05290	.05310
1.464	1.510		.05110	01680	02140	05010	00090	. 29760	. 00960	.03670	.05210	.06270
1.464	4.050		. 19690	07190	02260	.01080	00190	.29410	04600.	. 03600	.05420	.06300
1.464	6.650		.34760	12910	02360	06010.	00250	.29170	04600.	. 03590	. 05530	.06250
1.464	9.200		49450	18260	02460	.01020	00350	.26310	. 60920	.03520	.05520	.05063
1.464	11.700		.64300	22320	02860	.01060	00400	.27980	. 00920	.03530	. 05660	.05030
. 464	-1.010		10260	.03930	01880	.01050	00000	.29740	. 00970	.03690	.05280	.06310
	GRADIENT		.06314	02352	00103	¥2000.	00037	00001	00005	00018	00010	00016
		•	PUN NO.	150/ 0	FBV/L -	5.13 06	GRADIENT INTERVAL .	WAL = -5.00/	07 5.90			
ACK.	ALPHA	3		£	Շ	Z.	8	ςγ	CNBO	CABO	CABS	CABE
2.740	-12.140	·	74470	. 29350	. 00080	00050	.00170	.28530	.00460	.01770	. 02830	.03240
2.740	-9.950		61410	.24120	00210	.00150	.00100	.27620	.00480	.01850	.02860	04150.
2.740	-7.610	·	47800	. 18790	00100	.00110	.00120	.27180	.00420	.01610	.02710	.03100
2.740	-5.280	•	34820	. 13960	00150	.00080	.00150	36240	04400.	.01690	05920 .	.03100
2.740	-2.980	·	23090	.09720	00460	.00290	00000.	. 25590	. 00453	.01730	.02670	. 53000
2.740	660	·	12050	. 06250	00720	.00410	01000.	.25340	. 00470	.01780	.02610	.02810
2.740	1.570		02580	.03520	00750	.00420	00020	.24520	.00470	.01820	.02820	.02960
2.740	3.840		.08140	00470	00600	. 00250	. 00030	.24710	.00480	.01820	. 02550	.02800
2.740	6.120		. 19030	04370	00680	.00250	01000.	0.4%¥0.	00460	.01830	.02470	.02500
2.740	8.440		.30940	08630	01020	.00330	00110	. 23910	.00480	0.0	.02480	00420.
2.74C	10.630		.43260	13270	J. 10097	. 00240	06100	.23530	.00470	.01820	.02480	0530.
2.70	630		10790	. 05920	00620	.00370	0,000.	0.04°.	.00470	.01810	.02820	.03030
	GRADIENT		.04547	01468	00020	00005	00008	00152	<b>,0000</b> .	, 1000 ·	00007	00046

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DATE 06 OCT 75		TABULATED	SOURCE DATA.	TABULATED SOURCE DATA, MSFC THT 622 (TAIRS)		PAGE 40
		MSFC THI	622 (IA125)	MSFC THE GRE (IA125) LAUNCH VEHICLE, 74 OTS	081RO	(RINDIA) ( 29 MAY 75 )
RIFERENCE DATA					PARAMETRIC DATA	C DATA
• 2690.0000 SQ. FT	XMRP	976.0000 IN. XT	IN. XT			ELV-1L . 15.000
1290.3000 INCHES	d William	.0000	.0000 IN. YT		ELV-0L	ELV-1R000
BREF . 1290.3000 INCHES Z	de Z	* *00.0000 1N. 27	IN. 21		ELV-08 = .000	
Ş	ç Z	1.67 0 .88	# #.9	PUN NO. 116/ 0 PN/L . 4.84 GRADIENT INTERVAL5.00/ 5.00	5.00/ 5.00	

#ACH	ALFHA	Š	Ş	Շ	Š	ę	CAF	CNE	CABO	CABS	CABE
960	-11.550	75870	.28850	02300	.02010	07900.	. 10020	08800.	.03820	.06+60	.08790
965	-9.400	51230	. 22930	02100	9.6.	.02650	.10760	00800	03430	.06370	. 08530
.598	-7.150	47300	. 17660	02630	.02140	. 00410	. 11590	.00060	.03290	.05560	01180.
298	066 - 4-	36729	. 13420	62990	01830.	. 20360	. 12380	.00850	.03230	02430.	.07569
.598	£.77€	23910	.08510	03210	. 02423	0.800.	. 12553	.00830	.03160	. 65390	.07260
598	5¥0	1:250	.04020	03750	.02590	06100.	18483	02600.	.03:30	.05390	27072
298	 กับ	.01020	-,003+0	03773	. 92590	. 20880	12083	. 00823	.03:20	05340	09000
.598	3.1970	::3570	04670	04070	.02580	35130	115640	01270.	03:00	. 05280	C6873
.598	6.090	.25750	087*0	04130	.02550	07:00.	.10873	08/00.	05820.	.053:0	. 06693
596	8.363	366BE .	13450	CEAND'-	.02500	0.000.	04560.	67730.	02850.	0.05640	.06579
.538	10.4:3	.5::80	19773	04383	. 22+80	50100.	. 28593	.00763	00620.	. 05600	. 06423
.598	550	206::∵-	.04350	03420	. 02+80	06200.	.:2523	. ocea	03130	00410	05170.
	GRADIE'ST	. 25565	02339	00132	.00032	00024	-,00393	+0000·-	*1000°	00016	0,000
		9. 80.	117/ 9	PN/L .	Ø. %.	ORADIENT INTERY	VAL5.0	00.8.00			
MACH	ALPra	ઢ	C.	ò	N N	60	CAF	CNBO	CABO	CABS	CABE
668	-13.210	59380	.39510	02780	.02550	05500.	. 1 3890	.01210	.04600	.07130	. 09360
83	-10.740	58787	. 30890	02450	01150.	06£00.	01441.	07110.	.04330	06070.	01060.
668	-8.130	58:80	32170	02520	. 02:20	J-200.	. 14280	01070	04070	. 05620	.08563
669	-5.650	0041474	5530	02900	.02310	06000.	01671.	.01030	.03920	.26120	. 08340
668	-3.2+0	25-60	06880.	03250	.02480	300:0	.14670	00010.	.03800	.05860	. 37950
668.	830	05350	.01330	03340	.02450	NO1CC	. 15100	. 00950	.03630	.05730	06540.
.839	1.570	. 05670	0*950	03530	. 02520	00:70	0+8+1.	0,600.	.03580	.05650	.07510
668	3.950	.: 9600	09583	04060	.02530	00180	.14530	.00950	.03530	04750.	0:520
. 899	6.400	.33200	:4000	03940	. 02430	00170	. 13880	. 00950	.03630	. 06130	.07530
666	9.64.0	20494.	-,17560	04180	. 02380	00170	. 13060	09600.	.03650	0.8840	.07640
.899	11.060	. 59230	22870	03740	.01930	00170	0.12970	.00930	.03540	. 36410	.06980
689.	830	27:60	.01370	03220	00450.	00060	26151.	00000	.03690	. 05820	.07660
	GRADIENT	54:90	02574	00113	.00028	900≥ <del>-</del>	00088	00007	00023	00318	00050

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				HS.C.	THT 622 (1	IAIZSI LAU	MSFC THT BER (1A125) LAUNCH VEHICLE, 74 OTS	₹ 07S		(A)NDI4)	14) ( 29 MAY	. 87 YA
	REFEMENCE	ENCE DATA								PARAMETRIC	C DATA	
SCALE .	2000,00003 1200,3000 1290,3000	SO. FT INCIES INCIES	2 4 A A A A A A A A A A A A A A A A A A	60.00 0.00	976.0000 IN. KT .0000 IN. YT				ELV-0L •	000	ELV-3L .	. 000
		\$	PCK NO.	0 /6:1	RN/L .	6.53 Q	GRADIENT INTERVAL .	WAL = -5.60/	9.00			
MCH	APS	8		r r	Շ	Š	<b>8</b> 5	S.	0845	CABO	CABS	CABE
7.047	7 -14.180	1.17490	90	.50720	00530	07110.	.00780	.23070	.01560		•	. 10660
.9.	-11.450	191320	50	. 39250	01000	.01380	.00620	.23400	01410.	-		. 10500
1.03	1 -8.750	05069	50	. 30050	01250	01450	.00550	.24660	.01350			09720
1.97	7 -6.150	149870	5	.22420	01940	.01520	.00410	08185	.01320	-		.09230
1.9.1	-3.590		90	. 15320	01830	01670	.00330	05723.	.01250	•		.08820
1.97	0.0-1-	115110	0	0+980.	02130	.01780		. 25330	.01250			.08830
- G	1.430	001030	30	.01220	02340	.01760	.00150	07672	.01280			.08880
.047	3.910	17210	<u>ء</u>	06260	02500	.01720	.00100	.24060	.01330			.08500
1.047	9 6.450	32870	0,	11963	02750	06510.	00020	.22870	.01360			.08670
.9.	1 8 980	1 .48360	<u>ي</u>	17600	02690	.01370	00030	.22820	.01300	.04970	.08510	.07840
1.047	11.290	02609.	30	22200	03230	.01750	00040	. 22110	.01380	0.5240	.08370	.07760
	ORADIENT	.06571	7	02689	-, 00089	.00005	00032	00215	.000.	2,000.	00001	**000.~
		\$	RUN NO.	118/ 0	FR/L .	ა 69. გ	URADIENT INTERVAL5.00/	WAL5.0	9. 5.00			
M CH	AL PHA	Š		S.	દ	ž	95	CAF	OBNU	08\ 0	CABS	CABE
1.205	5 -14.900	1 -1.24630	30	.50370	01220	0.010	.00700	. 25540	.01480	.05630	08440	06-60
1.205	3 -12.060	0#:96'+0	ç	.36430	01250	00110.	04900	.26670	.01430	.05460	. 08530	09160.
285.	5 -9.170	0.4607 (	ò	.28160	01470	.01290	.00510	.27100	0.0	01150.	.08160	.08630
1.205	3 -6.420	02064 1	50	. 19550	01720	05410.	.00370	.27450	.01290	01640.	.07860	. 08850
1.205	5 -3.740	29230	30	. 11590	02120	.01560	.00210	.27950	.01230	.04580	.07550	.08700
1.205	5 -1.079	07701 (	5	.04420	02370	.01600	. 30153	. 28370	.01220	04840		01+80.
. 205		05330	30	01990	02320	.01390	01100.	.28120	.01210		.07270	.08310
1.205	3.970	. 20630	8	08590	02710	.01520	.00000	02245	.01210	01950	.07420	.08160
. 205.	5 6.560	36720	50	14470	02510	.01260	00040	.26610	.01220	.04630	.07650	.00100
1.205	9.1.60	0.52370	5	20930	02650	.01120	00130	.26060	.01200	.04560	.07860	07440
1.205	_	.66820	50	25450	03210	02410.	00210	.24910	.01230	.04700	. 08030	.07450

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DATE 08 0C7	OC 7.75			TABULA	TABULATED SOURCE DATA.		MSFC THT 522 (IA125	1125.			PAGE	ε. Ε.
	•			) JSE	TWT 622 (	IAIZSI LAUN	HSFC THT BEZ (18125) LAUNCH VEH'CLE, T	8_C %		(P)N0141	1 ( 29 HAY 75	. S: >
	REFERENC	ENCE DATA	<							PARAMETRIC	DATA	
• 38£		8	ă X	976.0000	ż				BE 7.A	000.	ELV-11 =	200.81
BORE . SCALE .	1290.3200 1290.3200		d d	0000.004 •	.0000 IN. YT				ברא-סר ברא-ספ	6. C.	• • • • • •	9999
		Œ	<b>35.</b>	146/ 0	RN/L	B. 47 OP	OPADIENT INTERVAL	VAL5.00/	00. 5.00			
1	410	3		ĭ	Շ	Š	ಕ್ರ	CAF	CMBO	Cavo	CABS	CABE
- 18.		•	20230	48710	-,03520	.00382	33683	.29680	06010.	04140.	04490	.07400
2 4	) (1	•	0.50	.37220	03830	80 C	C) (1) (1)	.29583	.01030	. 93920	. 26390	.07030
		•	59513	25900	000000	. 22463	00700	29510	0:010	. 33850	. 06230	.06850
1 11	· ";	5	0.000	. 18:33		80000	0-600.	. 2958.	366CC.	C8180.	00650.	. 06600
144	,	,	2557.2	.:0290		CESCO.	01 61 61	29-63	06501.	G-75:.	. 35583	. 06+30
100	٠.		0680	0.40%0		(): (): ():		05/62	0.00940	::	C4780.	0+290.
	•		u u	0.000	. 282.2	01930		12-62.		00000	36290	.06330
2 2	,		C1	1 1 1 1 1 1	1	***		11.450.	Caebo.	1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1	CH MBC.	. 55320
( C )	a		0	e e	02.33	19800.	::	. <b>2</b> 9.93	7500	Control	. 25580	. 05230
1462	111		51.190	18713	38333		;;	U. 4,	() () ()	( ) ( ) ( ) ( )	25623	. 06080
			C E	22723	02990	t : 00 to : 10		2825	CEEUC.	の子類だい	. 15690	.06030
	•	,	CCHGC	SUBSTITUTE OF STREET	1.0.1	3.5	;;	. 25e : 1	[] []	13700	08380	.05310
	3		06255	02310	E8000	(1) (1)	61	7000-	<b>8</b> 000000000000000000000000000000000000	- 23617	60 00 00 1	00013
		OX.	RC2 NO.	0	RN/L	5.13 34	SAAS, ENT. INTERIAL5.037	4AL5.0	6. a. 3			
i	8	3		1	5	Ž	ď	Ç	Ses	0840	CABS	CABE
5 6	•	•	74050	29030	0+0007	0.000	0.400	. 28950	01-00.	095:0.	. 02500	.03210
קיי		•	0250	.23730	00120	07100.	33840	. 28040	.00430	.0:650	.02640	.03120
2.70		•	47630	. 16520	00230	.00:83	0C:00.	.27093	.00%	019:0	.02719	.03120
2.740			34810	. 13860	00213	.00150	09160	. 26219	03700.	069:0.	. 02680	03110
5,7			<b>9</b>	. 09620	00530	.00330	02:00.	. 25610	06430.	.01730	. 02660	.03000
2.740			-, 12040	.06213	00719	00400.	62000.	. 25340	.00420	.01780	. 02610	.02800
2.740			077	.03390	00740	0:400.	. 25025	. 25029	.00480	.0:920	. 02580	. 02690
2.740			.09160	0,00579	00733	.00350	09000.	. ≥×690	00460	.01830	. 02550	.02500
2.7.0			. 19330	04630	00820	O-€00.	02300.	. 24280	00700	.01830	07450.	20.
2.740			.31050	08870	00800	.00150	06000.	. 23920	00100.	. 01830	02473	0020.
2.740			.43420	13420	00980	CB160.	00080	. 23660	02420	26210.	08420.	טינים.
2.70	)620	•	.10360	. 05610	00690	01400.	. 20063	.25310	00420	.01800	0802	06/20.
	CRAD I EVT		.04531	01470	00028	. 30001	1:000:1	00136	*00D0 ·	61000.	60016	4. UUUDB

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DATE 06 0CT	ξ. Έ			TABL	TABULATED SOURCE DATA,		MSFC THT 622 (1A125)	ž.			PACE	¥
				¥	C TWT 622	MSFC TWT 622 (1A125) LAUNCH VEHICLE, 7%	H VEHICLE.	₹ 075		(R1M015)	5) ( 29 MAY	. k
	REFEREN	ENCE DATA								PARAMETRIC DATA	: DATA	
. 1368 1967 3867		- មូម		0000. <b>378</b> • 0000. • 0000. • • 0000.	.0000 IN. XT .0000 IN. YT 72 .NI 0000.				6ETA ELV-OL ELV-OR		ELV-IL •	000.01
SCALE .	0 6 0 7	Ş	ر او او	107/ 0	PH/L •	16.*	GRADIENT INTERVAL	WAL • -5.00/	90, 5.00			
MACH	ALPIA			5	Շ	<b>E</b>	충	3	0 <b>9</b> 43	CABO	CABS	CABE
8	\$ ₹	•	ន្ត	287%0	0.600	.01060	.00950	04.00	.00960	.03650	01890.	. 10110
6 6	1. L.	0.487.	8 5	25.00	0010	070:0.	00000	65.69	00830	.03560	.06520	. 09760
96	196.	•	. E	12910	01853	0350.	00000	2011	08800	03360	05010	08430
8	-2.760	•	S	. 08039	02080	.01630	.00630	11310	00870	.03320	02020	.08170
86	1. P. C.	١	S S	.03619	02620	.01960	0.000	. 110%0	.00870	.03300	.05890	066.0
Ş	1.650	•	ç	01:40	03080	D1970.	05,400.	07731.	.00830	.03180	. 05750	0.920
969	3 1380		C	05360	03260	. 52050	09-00	. 10280	.00950	. 03230	.05780	0170
986	6.103		S	09890	03430	. 02030	.03510	.09730	00800	.03050	05750	.07350
586	8.350		2	:+390	03630	. 01990	.00420	.08310	.00810	.03080	.06120	00%00
985	12 420	٠	8	+. 196an	03770	. 52020	. 00%20	07570.	.00790	.03033	.06100	.07130
596	6.549	- ::2:0	0	.03783	02390	CTT10.	. 00600	.1:310	. 00840	.03220	0.050.	0.6.0
	CRAD!EN"	.05729	æ	62053	00172	.00053	030 <b>28</b>	-, 00100	00005	<b>-</b> .0031 <b>8</b>	00007	00077
		\$	₹. 6	1967.9	· 7/NO	6.22 GRA	GRADIENT INTERVAL5.00/	VAL5.0	9, 5.00			
MACH	AL PHA	č		r)	Շ	£	ඡ	S. C. S.	00 00 00 00	CABO	CABS	CABE
€06.	-13.:30	97080	2	38040	01850	.01620	.03860	. 13080	.01230	04680	.07350	0*660.
.903	-10.660	76790	2	23460	02550	01150.	. 00680	. 13610	.01150	.04390	09170.	04660.
903	-0.160	58310	0	21950	02930	. 62320	09,00	14000	.01090	9-130	.06780	.05073
.903	-5.670	05::+:-	Ö	.15170	03010	.02273	. 00350	14140	.01050	.04020	.06420	.08750
.903	-3.250	2555	ပ္	.09573	03239	. 02360	. 00233	. 14520	. 00970	01720.	.060•0	. 08170
903	620	09093		.01050	03590	00~20.	. 00060	. 14350	00600.	.03730	. <b>8</b> 120	06080.
.903	88	05710		05850	03520	. 02330	0.000.	. 14320	. 00960	.03670	.0000	.07990
.903	3 g50	1995		-·108+0	04290	.02650	0.000.	. 13690	00600.	.03720	.06230	01080.
£06.	6.400	.33693		0.641	04030	. 02330	.00120	. 13170	.0100	01980.	07530	.08100
809.	8.850	21.85.		:8550	04169	07.50.	00100	. 12.30	00600.	.03720	04170.	. 08050
.903	11.130	.61070		020*2'-	03370	.01550	. 00163	. 12500	06600	.03760	0.06840	.07620
.903	600	08-53		09960	-, 03300	. 02340	.00153	14510	05660.	.03780	. 06060	01:80
	CRAD!E 47	.06293		02715	00132	₹000°.	00021	00105	. 00000	00001	61000	000€

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

2A7E 96 OCT 75	× 12		TABULA	TABULATED SOURCE DATA.		HSFC THT 822 (1A125)	A125)			PAGE	<b>;</b>
			¥.	MSFC TWT 622 11	141251 LAUP	622 (TATES) LAUNCH YEHICLE, 7	₹ 075		(R14015)	5) ( 29 MAY 75	. 27.
	REFERENCE	HCE DATA						u.	PARAMETRIC DATA	DATA	
1368 1368 1368 1368	2690,3000 50 1290,3000 1NC+ 1290,3000 1NC+	O FT XHEP	978	.0000 IN. XT .0000 IN. YT .0000 IN. ZT				8ETA ELV-OL ELV-OR	8 8 8 8 8 8 8	ELV-12 =	000.01
	-	RUN NO.	0. 10%, 0	P. Y.	6.52	GRADIENT INTERVAL	WAL5.00/	10/ 5.00			
MACH	AHQ 14	ž	ş	Շ	ţ	ණ	CAF	0 <b>9</b> V	CABO	CABS	CABE
9,6	•	-1.15280	06684	09410	. 93910	. 90999	. 22400	06*10.	. 25560	03050	.10000
w 30		89530	37960	03619	00010.		. 24320	. 21280	06840.	. C8890	05+50
( ) O .		67:60	. 286:0	00730	£1600.		04745.	.01250	. 24750	.06550	0.580.
1076		- , *B380	.21:70	01070	.0.063	06900.	. 25×63	061.0	01070	o + 1 BC -	. 28659
9.6		3:523	14683	01460	.0:230	(6)10	. 25:20	015:0	0.4613	09080.	.08570
9-6 1		1.14940	.08233	0.950	(a)		.2 - 233	06:10	.5+530	CD .60'	.09570
9		.00530	51:13	1.00:60	.o.	61750	6.833	C7010.	.04733	Crero	. 08530
Дене		:7320	- 05470	3555	(1) (1) (1)	01200.	555-31	0:5:0.	. 346:3	0.18:0	.06030
		32795	2323	1.023.0	084.0	. 55263	C6853.	.0:253	(367.	68 as 3	0.59243
<b>(1)</b>		(a)	1980	- 02533			.22380	6:4:0.	54833	CE33.	£-1773.
9 40	_	0.640.0	22353	9332	() ()	<b>9</b>	.2:600	0.8:0.	いがのすび、	0.880	.07750
		C1 (1)	08:40	225563	001.0	0.03400.	.2+330	. 01222	Sv653	04×60.	. 08733
	3	06+30	02836	95100	0000	62000.+	00:33	S0000.	60000	20339	F.000
		ACA NO.	0. 105/ 3	BN/L .	6.E3 G	GRADIEN' INTERVAL5.007	NAL5.6	00.8 /60			
1048	410	Z	i d	5	ž	ថ	ÇYE	CNBO	CABO	CABS	36V)
00-	'	-1 26573	.52860	-,00853	.03833	00600.	. 22520	.01530	05946	0+680	0600;
9		97610	383+0	6+700	07700.		. 2+380	.01529	.05800	. 0915C	0:1:60
66: 1		70500	07370	00833	CSTCC.	. 90733	. 25260	.01429	.05+20	04980	. 09360
66: 1		+8+30	.:8630	0:309	. 00890		.25500	. 31353	.05190	. 06390	. 29313
66		29880	11010	01460	. 30920		. 25990	. 61323	. 05030	. 08230	. 09230
199		10390	01523.	0:863	060:0.		. 26650	01530	016-0.	.07980	. 08950
66		.05720	02323	01922	.03993		.26190	.01279	. 04660	.07930	. 09933
1.199		02622	087:0	02:50	.01020		.25650	.01293	.04630	. 08200	08230
1.199		35810	14660	02:83	.00933		25540	. 01240	087.40.	. 08 30	. 06300
1.199		.52130	2052	-,02390	01600		06**2.	.01260	0.800	. 06390	01679.
26::	_	.65510	24200	02950	.01253	•	. 23380	.01280	.04870	. 08550	. 07853
1.199		09010	.03230	0!683	. 00963	. 00360	.26670	.01250	.04750	0:8:0	. 08720
	5	.06+32	02548	0008-	80000	00328	00057	- 0000	*1000	00006	+500D

000.01 .000 (RINDIS) ( 29 MAY 75 ) ŝ PAGE ELV-11 -PARAMETRIC DATA 6ETA • ELV-OL • ELV-OR • MSFC THT 622 (1A125) LAUNCH VEHICLE, 74 OTS TABLEATED SOURCE DATA. MSFC THT 622 (1A125) 976.0000 IN. XT .0000 IN. YT 400.000.001 IN. ZT REFERENCE DATA SREF = 2690.000 SQ. FT LREF = 1290.3000 INCHES BREF = 1290.3000 INCHES SCALE = .00%0 DATE 06 OCT 75

		RUN NO.	0 /44	BN/L -	6.44 GRA	PRADIENT INTERVAL5.00/	N5.00/	3.00			
I	A PHA	8	g	Շ	Š	<b>8</b> 5		000	CAB0	CABS	CABE
8	-14.810	-1.20170	0+60+.	00320	.00270	0.800		06010.	04160	.06¥0	.07¥0
<del></del>	-12.050	93870	.37040	00550	.00280	.00730	.29483	.01020	.03900	. 06390	.07020
8	-5.180	69360	.26750	006+0	.00230	00200.		01010.	.03850	.06280	. 05890
8	-6.4:0	+7730	. 18240	01260	.00450	. 00460		.00990	.03780	.05960	. 09600
8	-3.720	28320	.10380	00880	.00220	00+00		09600.	.03750	0.05640	02460
38	-1.050	10370	.03570	01400	.00550	.00310		.00960	.03670	.05+30	. 05320
8	1.520	.05770	02250	01590	.00550	.00210		06600.	.03630	.05380	.05270
8	4.050	.20170	07700	01710	.00500	. 00130		0-600.	.03580	.05570	. 05290
8	6.630	.35380	13640	02050	.00660	.00030		.00930	035+0	.05630	.05210
99	9.210	. 50260	18920	02200	.00700	00040		.03920	03200	0.05640	.06080
28	690	0.7.20.	25950	02620	.00780	00130		.00930	. )3530	. 05750	.08080
8	990	09520	.03360	01330	.00500	.00330		.00963	.03680	05+30	0490.
	ORADIENT	.06247	02322	00104	.00033	00035	Ţ	00005	C0021	00010	00019
		RUN NO.	152, 0	FBV/L •	5.14 GRA	GRADIENT INTERVAL = -5.00/	N5.00/	5.00			

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	ž		Շ	Š	턴	C.	<b>0</b>	0 0 0 0	CABS	CABE
28490			.00100	00010	00340	C\$082.	.00390	06*10.	.02560	.03110
.23700			.00000	.00030	.00310	. 28060	.00+30	.01630	.02280	.03160
18*90			.00050	05000.	.00270	.26870	.05*20	.01610	.02820	.03190
. 13690			.0000	.00000	.00310	26140	04400.	.01690	. 02650	.03180
06•60		•	.00390	. C0243	.00190	.25430	. 20+50	., 01730	. 02620	.03060
.06220		٠	07400.	. 00230	.00170	.25320	. 00480	01770	09520	. 02850
. 03320		١	07000.	.00250	. 00130	.24970	.00~10	.01790	50	.02750
00630		٠	.00600	.00220	06000	.24670	.00*70	.01800	000	.02650
0.7.0		ı	.00690	.00200	06000.	.24330	.00470	.01820	<b>95+30</b>	C+620.
08950		•	. 00380	00180	00:70	010%	.00490	.01830	.02550	3446.
13730		٠	.00560	00170	. 00130	.23800	.00470	.01790	.02520	.02370
10360 . 05550		ľ	00470	.00260	.00160	0.75%	.00%70	.01780	.02560	.02810
18410		•	2000	- 00000	- 00015	A1100 -	10000	01000.	60000	-, 000059

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			\$ ·	. *HT 622 (!	ALPS) LAUN	MSFC THT 622 (IAI25) LAUNCH VEHICLE, 74 OTS	24 OTS		(RINOIS)	11 ( 29 MAY 75	. 25 >
	REFERE	REFERENCE DATA							PARAMETRIC	DATA	
SREF . LREF . BREF . SCALE .	2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES	D. FT XMRP NCHES YMRP NCHES ZMRP	976.0898 - 0880.089	.0000 IN. XT			-	52.V-02.	000.01	ELV-1L = ELV-1R =	. 363
		PUN NO.	1001	- 1/20	4. 92	GRADIENT INTERVAL .	WAL5.00/	00.8 //			
MACH	ALPHA	ક	į	Շ	A.C	න්	CAF	06 <b>%</b>	CA90	CABS	ų č
966	'	07127	0.25073	02220	01880	.01210	08-60	. 3289C	03400	05570	009€ J.
<b>86</b> 5.		59000	25735	52650	. n2183	0:083	51 <b>96</b> 3	0,4600.	.03570	.06550	03560.
5598		-, 45390	15693	02580	. 02130	.01033	. 10550	01900.	.03480	.06190	ú. 360 T
<b>865</b> .		33873	OMC:	027+0	05:13	. 30983	.::330	22603.	03440	. 05970	. 08380
965.		20805	.05320	04:80.1	.02380	0:600.	. 12113	04800.	. 33220	.05630	02770.
<b>365</b> .		087±0	SM 0 . 0 .	03710	. 02633	00800.	11891	. 00853	.03270	05740	.07669
. 1988		04840	03:80	24: 83	08750	. 23793	0 m : :	.03850	0.38%0	.05680	. 67589
865		CTST: .		04:30	. 02633	. 33823	.::030	. 50883	.03250	. 05650	.07463
86.		C620E.	0.00	-, 0+350	. 026:0	. 03963	.:0123	0,800.	.03210	05770	.07300
965		CORPT	5720	030307	.02530	04600.	. 09733	0,600.	. 33200	.06060	. 07293
965	10.450	.55463	22391	- C+680	04830	01100.	04080.	56100.	. 33020	02650.	. 06950
.59¢	9-1-520	- C9890	.0:650	- 03600	. 02583	168823.	د، و ا	.03863	.03280	.05780	27685
	GRADIENT	S-1-80.	52.13	E :55 -	*9000·	00020	63362	0000-	00016	00027	0008
		5	0 /651	PN/C	6.20 34	SPADIENT INTERVAL + -5.007	WAL5.00	97.50			
MACH	AL PHA	Š	3	Շ	ž	륁	Š	Ces o	CA90	CABS	CABE
668	•	96450	.37375	02220	277.0.	.01063	.:2850	.3:220	. 04660	.07390	. 10210
666		-,75390	.26+53	02440	026101	.00860	04461.	.01153	.04370	.07210	.09700
668		57260	.2355	228:0	. 52550	05/00	.13980	050:0.	04140	01890.	.09180
668	9 -5.660	39530	0 98:	32980	02:50	. 50570	.13953	01010.	080+0	. 06430	. 08820
669		23520	. 57233	- 03550	01+20.	. 30%-23	. 14350	.010:5	.03860	.06370	.08280
668	018 6	0.570	00380	03423	. 52210	02400.	. 14530	06600'	.03750	0.6830	.08150
668		. 08350	07:33	03320	. 02030	07400.	.14183	.0:020	.03870	. 06030	06180
668.		. 22210	123-3	04320	. 02550	.00429	. 14080	. 00983	.03730	.05890	.07890
669		.35+50	16082	04040	. 02290	C9+30.	. 1349 <u>0</u>	.01000	.03920	.06230	01080
668	9 8.670	0.49570	19433	04323	.02530	.00350	. 12583	. 0:303	.03790	. 06800	. 080ec
669	9 1110	.6:420	-,2-5:2	03853	£6110.	.00320	. 12330	. 01020	03880	.05470	.07750
668		09:10:-	00430	03360	.02163	.00430	. 14630	06600.	.03780	. 05980	.08160
	CRANIFAT	045 90	32723	06000	000010	10000	B-000	00392	51000	00000	7*000

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				•						_	29 HAY 75 -
	REFERENC	ENCE DATA							PARAMETRIC DATA	DATA	
386	2690.0000 50.	SO. FT XMRP	976					BETA .	000		15.000
SCALE .	1290.3000 INC	Ç Ş	, to	<u> </u>				ELV-04 .	000	ELV-1R .	900.
		ACN NO.	. 1117 0	FN/L	6.51 GRA	GRADIENT INTERVAL =	VAL = -5.00/	90/ 5.00			
T C	ALPHA	8	ş	દ	NE C	8	CAF	0 <b>8</b> 0	CABO	CABS	CABE
946	6 -14.160	-1.15320	. <b>4880</b> 0	00440	04600.	.01300	. 23330	.01550	.05900	04660.	. 10620
3.0°E	5 -11.44G	89360	.37600	90760	95010.	06110.	.23880	.01+30	. 05+30	04460	. 10370
1.046	6 d.70	67400	.28530	00950	06010.	.01100	.25000	.01360	.05170	01680.	06760
1.0%	6 -6.110	47520	.20530	01200	06010.	06600.	.25560	.01310	08650.	.08430	07560.
1.0%	5 -3.580	30430	.13790	01400	.01120	00600	. 26020	.01250	.04780	0.080	. 08930
1.046	5 -1.020	13360	04040	0.610	0:390	0.800.	02642	.01310	. 05000	.08220	.09120
- <del>2</del>	6 1.450	.02880	00450	02100	.01300	00730	. 24580	.01350	.05160	.09060	. 08920
- 946	5 3.930		07780	-, 02480	07410.	. 00900	.23910	.01490	.05330	. 08200	.08700
7.0%	5 6.480	.35970	- 14400	02193	.01050	.00560	.23940	.01310	.04990	. 08030	. 09390
1.046	6 9.000	.50300	19340	02423	01010.	.00530	.23010	.01360	.05170	.08430	0.07810
1.046	5 11.300	.62790	23940	03240	.01570	.00470	.21980	.01470	.05580	.08450	. 08030
7.046	900	12790	. 06830	0:860	.01300	C+800.	.24780	.01330	. 05060	.08300	06160.
	GRADIENT	.06517	02887	00136	.00035	00040	00267	.00020	SC000.	.00013	00035
		RUN ND.	. 110/ 0	FRV.L =	6.64 GRA	GRADIENT INTERVAL5.00/	VAL = -5.0	90/ 5.00			
PACH	ALPHA	3	£73	Շ	N.C	<b>g</b>	CAF	08 20	CABO	CABS	CABE
1.197	7 -14.890	-1.22990	Ū <b>≁98</b> +.	01000	.00750	07110.	89. C.	06+10.	.05670	.08550	08+80
1.197		9*800	. 36990	-,00950	.00780	.01070	. 26520	.01460	.05570	06980	.09310
1.197	7 -9,130	69280	. 26650	01230	. 00880	. 00960	. 26760	01+10	. 05350	.08530	04260
1.197	7 -6.380	46790	17610	01480	06600.	.00800	. 27320	01310	066-0	.08110	00160
1.197	7 -3.710	27200	STT20.	01890	.01120	. 00650	.27660	0.210.	04850	.07840	. 09030
1.197	070.1- 7	08950	01620.	02140	.01183	.00580	28470	0.210.	.04730	07510	. 08580
1.19	7 1.480	01070.	03520	02140	01010.	06*00.	060 <b>82</b>	.01230	.04700	.07410	.09+60
1.197	7 4.000	.22680	10330	02340	06600.	01.00.	.27610	.01230	.04670	.07560	04280.
1.197	7 6.590	39240	16510	02330	. 00860	. 00320	.26589	. 01260	.04780	.07820	04880.
1.197	7 9.140		22560	02470	.00760	. 00200	.26200	.01230	.04670	07956	07*TO.
1.197	7 11.580	.68880	27200	03070	.01130	.00160	. 25 100	.01270	.04820	. 08050	07570.
1.197	7 -1.0%0	08340	.02800	01970	01060	0.800	ZORED	2000	04.670		25.60
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			•	R N		JAI (CIAI	HOLD IN DEE (INICO) LAUNCH VEHICLE.	\$ 01S		(R1N016)	1161 C 29 MAY	. & YA
	RFF	REFERENCE DATA								PARAMETRIC DATA	C DATA	
2001E - 3005	2891,0000 SQ. FT 1290,3000 INCHES 1290,3000 INCHES . CDN0	SO. FT INCHES INCHES	XYGP - 97 YYGP - 40 ZYGP - 40	976.0000 0000. 0000.004	X				BETA ELV-OL ELV-OR	.000. 000.01	ELV-16 .	.000. .000.
		PLN NO.	NO. 147/ 0		- J/NJ	6.43	GRAD:ENT INTERVAL		-5.00/ 5.00			
PACH	AL PHA	8	E TO	J	<del>ر</del>	5	ණ	3		CABO	307	364.5
<u>.</u>		<u>'</u>	0+96+0	•	03200	08000	06010	29740	08016	04170	02.430	יאיני מאינט
	•			•	.00570	.00210	. 20953	. 29630	0.0.0	.03980	06+70	01:79
					00570	.00143	02830	. 29530	0.010	03950	. 05350	26950
Co.		C + C U - 1			0.010	00400	. 0086.	.29580	01010.	0.038		. 05590
Ç i					00900	. 20173	. 22539	. 29650	20010.	. 03800		062330
Ş :	•	·			01290	01+00.	. 62593	. 29960	.0098C	03743	.05520	.05253
Ş					- 0 W	.00390	C2150.	.29930	. 00962	.03720	05480	. 25232
Ç.		•		-	91610	.0033	.00350	. 29790	00620	.03659	. 056+0	.36220
		•			9:610	COBECO:	. 62853	. 29453	. 30950	03840	05720	25180
		S N N	•		01950	n.,555.	C_:C3:	. 25963	0.00g+0	.03590	.05550	05850
		.66342	•	•	. 32250	01400	000	.28310	02600.	.03550	05713	02633
55		08573		_	0:360	CETCO.	0.006.0	13008G	08600	.03730	. 05503	0.552+0
	73:0 <b>7</b> 3	C0250	08350	_	26000	.000:8	00039	\$1060.	00005	00017	00013	00021
		ALM NO.	NO. 148/ 0		BN/L	5.12 GA	GRADIENT INTERVAL + -5.00/	WAL5.1	00. = 700			
MACH		ટ	מר	Ü	ځ	CYN	8	3	9	0842	885	767
2.70	•	0.65% -	. 28*50		.00220	00130	00470	29090	01400	0.580	02520	0.255.0
2. 7.0		- 69070	.23270		.00000	.00000	26£CJ.	.28220	DE +GO .	01630	02870	04040
2.70		- 45930	. 18210		00040	0:000.	.00260	.27220	00450	01600	C. 40.00	0.020
2		33729	. 13240		.00000	00060	.00330	.26330	07500	06910	0.000	מילינים
٠. ک	٠	21950	01060		00260	.03110	.00260	25680	08400	01740	03880	0.000
2		- 11079	. 05690		00390	04109	0.500.	25520	00.70	08710	00550	08750
۶. چ		0:0+0	. 02500		00*10	.00110	. 96299	0.550	00460	01620	09560	05850
٠. ک		08180	01130		00+00	. 00020	. 00290	.2~830	00+00	01820	07.053	02570
2		.20570	05300	•	00150	00289	00200	.24550	.00470	01810.	04550	05420
2		3240	09690		00000	00590	.00333	. 230	.00480	.01830	05560	0.5340
2	_	44669	14360		00430	00380	. 00190	.23980	.00470	00010	0.0	02350
٠. ا		03710	. 02800		00210	.00000	. 00263	.27020	00270	01030	02050	01060
	-	****										

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				HSFC	THT 622 (	IAIZSI LAUN	MSFC TWT 822 (1A125) LAUNCH WHICLE, 74075-213	74075-213		(RINDIT)	2C MAL 81 1 1C	r F
	REFERE	ENCE DATA	₹							PARAMETRIC	: DATA	
2007 2008 1008 2007 2008	2 690 . 0005. 1 300 . 3000 1 290 . 3000 1 0000	SO. FT INCHES INCHES		976.0000 0000.004	976.0000 IN. XT .0000 IN. YT 400.0000 IN. ZT				SFOLCE -	000.3*	ORBING .	99.
		•	<b>3</b> 50.	677 0	- T/AG	6.16	GRADIENT INTERVAL .	WAL5.06/	9.3.00			
9	20.0	ð		ğ	Ç	ž	ಕ	3	8	CABO	CABS	CABE
2	•	1.01590	280	0.884	00130	.00060	06+00	. i 3680	.01100	981-6	09890	.09720
8			1780	38160	00020	.00000	.00300	1.540	.01070	060+0	.06570	.09520
<b>B</b> .	_	_	200	32510	. 00260	00140	.00260	114560	.01010	.03850	0,090.	. 08990
<b>9</b>			55720	. 25860	00350	.00500	.00150	. 15080	0.00970	03690	.05580	.08670
8.			- 41850	.20950	00310	06000	01100	.14980	.00970	.03680	.05730	04+80
200			27430	. 15600	01090	09*00	00000	. 15050	.00920	.03520	.05830	04180
		·	280	10730	01020	.00350	000*0	.14570	00600	03,20	.05900	. 18130
87.			52	.06110	01510	.00550	00130	14080	.00850	03240	.05950	.07930
			.14870	00000	01610	. 00650	-, 00150	. 12960	.00850	.03250	.06360	. 07860
7.			30850	05550	02100	0.600	00230	.11830	.00840	.03210	.06600	05-10.
8	_		.46250	12800	02250	.00530	00230	. 11050	.008*0	.03190	.06540	.07370
86.		'	27050	15570	00683	.00220	. 00020	. 15110	.00820	. 03520	. 05850	01180
	8		.05867	02110	00151	*S008.	00032	00136	00016	00059	.0003	03066
		Œ	RUN NO.	98	FN/L -	5.51 GA	GRADIENT INTERVAL5.08/	WAL = -5.04	5.00			
9	40.4	ð		5	ڻ	C	ਲ	3	CMB0	CABO	CABS	CABE
608	•	7	021	OTET#.	00120	06100	. 00370	0%31.	.01310	. 05000	.07220	0350
8	_	_	99	.40330	00100	. 002*0	.00220	15820	07110.	. 04450	.06830	08860 .
666	_	_	990	34200	00740	09-00	06000.	. 16240	.01.120	.04260	.06460	.09530
	_	157140	041	. 27920	COB+0	.00*80	. 00020	. 16510	.01080	8. 100 100	.062+9	.09220
\$			200	.21530	00870	.00500	00020	. 16590	.01020		. 06080	.08730
8			1720	0.15070	01160	C+E00.	001₹0	16540	0.05		00,90	.06710
669	1.200		5	.09070	01550	05100.	00260	.16530	00800	.03680	04:30	.06370
666			.0000	.01960	01890	00800	00330	.15530	.00800	. 03650	.06330	.08300
88	6.150		.20810	04409	02180	. 00850	00390	. 15000	.009		.05630	.06130
668			37.20	10300	02230	. 00700	00420	13730	. 00960	.0360	.07320	.08500
8	_	_	52840	17190	02:350	. 60370	00**0	. 13380	.00970	.03700	. 0725 <b>8</b>	.07840
8	_	٠	900	. 15120	01300	.00599	~.00120	00001	.01030	01620.	06320	.08670
	5		.06293	02692	00143	\$*000.	000**	80133	00010	00042	19000	0006

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TABLATED

MSFC THT 622 (IA125) LAUNCH VEHICLE, 76075+213

RIN0171 ( 19 JUN

OPBING . PARAMETRIC DATA .000 BETA SPOILR

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976.0000 IN. .0000 IN.

2590.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES

REFERENCE DATA

CASE 1.0850 1.0850 1.0850 1.08670 1.08670 1.08680 1.08880 1.08680 1.08680 1.08680 1.08680 1.08680 1.08680 1.08680 1.08 .11190 .11580 .10880 .10880 .09880 .09880 .09880 .09880 .09880 08530 08900 08900 08900 08900 08720 08720 08720 08730 09210 09210 09210 09210 CABS . 09180 . 09267 . 09180 . 09170 . 09170 . 09170 . 09170 . 09170 . 09170 . 09170 . 09170 . 090810 CABO .05960 .05570 .05360 .05360 .04970 .0490 .0490 .0490 .0490 CABO . 05850 . 05850 . 05850 . 05890 . 04890 . 04860 . 04860 . 04860 . 04860 . 04860 . 04860 . 04860 . 04880 . CNBO 01570 01410 01410 01410 01410 01610 01610 01610 01610 01610 01610 01610 01610 01610 CNB3 .01550 .01330 .01310 .01310 .01500 .01600 .01200 .01200 .01200 GRADIENT INTERVAL . -5.00/ 5.00 6.18 (1.00 ) CAF -25005 -2685:0 -25865:0 -2736 -2736 -27460 -2700 -2505 . 201599 . 204599 . 204599 . 204599 . 205999 . 205999 . 205999 . 205999 . 205999 . 205999 . 205999 . 205999 . 205999 -.00630 -.00630 -.00630 -.00630 -.00110 -.00110 -.00110 . 54030 . 54030 . 36730 . 36730 . 18730 . 1860 . 04050 . 04050 . 10330 . 1780 . 18830 . 55430 . 55430 . 37380 . 37380 . 37380 . 19450 . 10910 . 10910 . 10470 . 10470 . 10480 ŝ 11.19970 1.19970 1.19970 1.19970 1.199800 1.19980 1.19980 1.19980 1.19980 1.19980 1.19980 1.19980 1.19 CN -1 212-0 -199-10 -1999-10 --1.330 1.085 3.582 6.120 8.700 11.020 -1.280 ALP4A -14.373 -11.760 -9.040 -3.910 -1.370 1.100 3.600 6.170 41.080 -1.340 ALPHA -14.080 -11.560 -6.950 -3.860 8 8 8 8 8 8 8 8 8 

}	OA1E 06 OCT 15			TABLE	ישמרשינה מסייני היייי		MET THE BEE LIAISE					
					TMT 682 C	MEFC TWT BRE (IAIRS) LAINCH VEHICLE, 74078+213	W WENICLE.	7.078-213		(8114017)	NUL 81 ) 17	r E
	DEFENCI	-	4.40							PARAMETRIC DATA	DATA	
37V35	2650.6006 SQ. 1250.3000 1NC: 1250.3000 1NC: 1850.3000 1NC:	50. FT 1MO/CS 1MC/CS		• 976.6000 • 0000.004	976.0000 IN. KT .0000 IN. 27 .400.0000 IN. 27				SPOILR .	000.0%	ONB INC .	000.
		_	9 3	9 /1	- 1/NW	9.00	ORADIENT INTERVAL .	WAL5.00/	5.00			
Ş	1	ð		ğ	Շ	Š	ਲ	S C S C	8	CABO	<b>598</b> 3	CABE
1 1	'	7	25620	96140	.01730	00000	.00500	. 27180	.01400	029.0	02: <b>5</b> 0	. 10270
1.10		7	-1.01000	06603	.01230	00380	00-00	01002	05210.	0.CT.*0.	07 <b>59</b> 0.	0660.
1			79820	07.7	0010.	00440	.00360	8 E.	.01210.	.0.610	00.00	07760.
10			0**19	31630	00800	00*90	00300	06468	. 01820	.04630	06190	08280
			0000	07357	01500	DOPBD	04100.	04404	.01200	.04560	0490	0.480.
			27530	01.401.	20:90	69343	00000	. 29220	07110	.0~360	.07700	. 08830
8			- 10640	01111	0:000	60115	02000	. <b>28</b> 310	01116.	0.4.6		. DBB23
8			0-100	0200	00,00	09000	00060	DE 179.	.01100	00840.	09670.	00100·
			2	03670	00400	01100	00090	0 <b>6993</b>	.01060	0,000	0:940.	. 07990
			04,04	10790	00970	07106.	DDP*G	. <b>25</b> c70	.01050	010%0	. 08080	30770.
901	_		25393	- 16983	01330	00110	00350	. 23820	.01060	0.04030	06+20	387.0
100		•	26650	1.00	07:00.	00160	. 00060	. 20030	.01:83	06110	00.00	020 <b>6</b> 0.
	8	•	96790	02951	00114	: <b>2000</b> :	0032	00272	00013	000%7	00044	00:19
			2	ì	- 1/16	98.9	GRADIENT INTERVAL -	TVAL = -5.00/	2.00			
1	3	5		ž	ð	ž		<b>J</b>	8	CABO	CABS	CABE
3	•		027.46	65070	01510	00000	02900	. £7550	.01250	04760	027730	09760
3			-1.00920	00*0*	0 A = 0	00830	. 00550	. 29060	.01120	. 94250	OE 190.	06820
3			06-200	38660	.01220	000+0	02450	. 29360	.01070	04040	0480	. 38860
3			61980	32220	CE800.	0.4200	C031C	0676N	09010	92020	.07610	0.4000
9			0.000	9836	09200	00620	06100	0.28970	.01120	. 04270	009:0	0.000
3			27960	. 19620	.00230	.00*90	00100	. 29250	.03010	060%0.	91270.	. 08330
9			0-111-	12200	00010	C4400	67060.	01882	0.010.	.03860	.00100	.08050
651			.06220	03850	00310	00310	. 00000	27.50	0.010.	.03860	.07060	.07780
2			2.330	03310	00720	00253	00150	. <b>2635</b> 0	06600	07720.	01070.	7.40.
7			410.0	10610	00930	00210	00220	. 25220	<b>67.600</b>	03860	00200	.07100
5	-		55220	15950	01380	00160	. 00403	F* 300	01600	.03570	.07340	.06700
3			27410	. 19670	.00120	0.500	01100	25.35	.01030	.03850	052CO.	.08050
	8		69990	02981	00112	. 00038	00023	00215	00010	00038	- BECK	8. 8.

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DA1E 06 OCT 75	CT 73			*	BLAY.	TABLLATED SOUNCE DATA.		MSFC THT BRE (IAIRS)	(EALS)			PAGE
					5	147 622 C	(41 <b>2</b> 5) [4	MSFC 14T 622 (1A125) LAJACH VEHICLE, 74015+213	74075-213		(FIN017)	MJ 61 1 15
	<b>18</b>	REFERENCE DATA									PARAMETRIC DATA	CATA
. 956.7 . 86.7	2690 0000 :295 3000	50. FT	ă ș		3000 <b>378</b>	0000 IN X				86 TA 80 TA	900.	- 348 MC -
BAEF .		\$ 500	<b>§</b>	ž •	25 25 25						) ) )	
		α	§ ₹	υ 189	cı	- 1/2d	<b>9</b>	GRADIENT INTERVAL + -5.00/	SAVAL5.0	39/ 9.33		
MAC	AL PHA	3		יל ט		Ç	Š	85	CAF	Car S	CABO	CABS
- 25	-15 280	0 -1.3452i	520	3,	53	0240	0.00		06×82·	03.360	.05180	07870
٠. کرچ.	-12.44	0 -1.36400	C0+	. 45700	8	04400	00320		.29360	03:290	098₩0.	08080
당신	1-9 SP	•	<b>798</b> 90	.36×€.	e e	00200	- 0023		. 29600	. 2:283	04940	. 07880
1 252	91C 9-	•	26883	<b>K</b>	ů.	00000	F. CD. P		. 25230	C8110.	06470.	.07730
Σζ. Ι	-3.990	,	36350	m [	9	00190	501e		2:062.	5115.	04+60	08+E0.
₹. ?	-1.280			0.40	8	coseo	2000.		C6692.	2116.	04260	.07050
	- 280	CB+CC - 0	Çij.	CB880 .	C)	60700		•	02562.		. 5~250	040-37
 X	3 78(		03041	02823	C)	02892	•	01:55:10	06875.	01140	CEE+O.	. 97350
	09₹9		180	6.8	0	0.5001	00093	00200 - 00500	.27390	32.10	05570.	06 <b>1</b> €3.
1.27	C 60 00		2+23+3	- 1487	Ç)	6: ₫	00	•	.25650	670:0.	080,0.	02420
1.2%	50 <b>≯</b> ==		, i	C 458	0	15710.1	SCOO.	00+001- 0	.25510	.01139	0,000	01770
- <del>2</del> 50	-1.260	•	C 42	0.00	۲,	20513	7.000	35000. 0	C5162.	SE: 10:	04340	.07100
	CRACIES	-6-90°	ţ,	in N	٤	00086	81000	800029	00147	+00000-	ا ، 353 نو -	- 22015

CARE. .08590. .08690. .08890. .08890. .08810. .09530. .09110. .01360. .01360. .01360. .01360. .01360. .01360.

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DATE 06 OCT	CT 75		TABUL	TABULATED SOUPCE DATA,		MSFC THT 622 (1A125	133			PAGE	53
			F.	C TWT 622 (	MJFC THI 622 (IA125) LAUNCH VEHICLE, 74075+213	H VEHICLE. ?	4075+213		(810018)	8) ( 19 JW 75	- 55
	REFEREN	CE DATA							PARAMETRIC DATA	DATA	
SREF = LPEF = BREF = SCALE =	265J.7000 SQ. 1290. 0' L. 1290.3000 INC	. FT XHRP CHES YMRP CHES ZHPP	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	576.0000 IN. XT. 0000 IN. YT. YS. VI 0000.00+				ALPHA = SPOTLR =	.000.	ORBINC -	000.
		PGN NO.	26/ 0	RN/L	5.95 CRA	GRADIENT INTERVAL	AL5.00/	9/ 5.00			
MACH	BETA	ક	5	Շ	S.	묤	CA.	CNBO	CABO	CABS	CABE
798	-11.420	22590	. 12130	.47870	20060	.06130	11690	01040	.03880	00220.	.09470
.798	-9.270	23440	.12800	.39970	17580	. 05480	. I 24.30	01010.	03860	.07350	09200
967.	-7.030	23950	.13340	.30620	13840	.0+280	. 13300	08600.	.03720	. 06930	08∂80.
.799	-4.790	25090	.14280	.21580	09660	0.02940	.13970	00600	.03725	.06610	01280
.793	-2.550	26423	. 15440	.11530	05370	.01570	. 14640	.00930	.03550	. 05200	. 98550
.798	320	26680	.15810	.02210	01160	C1400.	. 15250	. 00880	.03370	.05710	.08000
798	1.890	25:90	14450	265+0	. 02890	-,00560	.16070	.00930	.03530	.05350	.0780
967.	4.090	25960	.14780	15320	.06780	01913	.15790	06600.	.03760	.05:00	.08200
793	6.340	24840	.13700	24730	. 11080	03230	. 15470	.01050	04050	.04930	.08610
967	8.550	24610	.13180	33820	. 14863	0 7 7 7 0	. 15220	.01070	04080	04840.	.09020
798	10.569	23870	. 12460	42000	.17820	05300	.14700	.01090	.04170	04880	01860.
798	310	27490	.16213	.02500	01340	.00433	066+1.	01600.	03+80	.05810	. 08110
	GRAD! ENT	000≥	10000	04095	.01854	00539	.00229	.0000	.00002	₹100	00075
		PUN NO.	0 //5	RN/L -	6.35 GRA	GRADIENT INTERVAL	AL5.00/	0/ 5.00			
MACH	8£1A	3	E C	Շ	CAN	CB.	CAF	CNBO	CA80	CABS	CABE
106	-11.670	21760	. 11260	.51180	21790	.07290	. 13280	06110.	04240	00620.	.09730
106	-9.480	21870	.11530	01414.	17970	. 06030	14740	.01150	.04370	.07610	06+60
.901	-7.200	21960	. 12140	.31980	14230	.04820	.15750	01:10.	04840.	.07320	.09140
.901	14.910	24270	. 14190	.22130	10090	.03260	. 16580	07010.	04080	. 06850	. 08850
106.	-2.610	25450	.15320	. 12110	05470	.01650	.17080	.01050	.04020	. 06550	.08510
106.	320	26610	.15570	.02180	00950	. 50253	. 16140	.01260	.04780	. 06260	.07900
106.	1.920	25550	. 15010	07840	.03790	01100	.17510	05010.	04140	. 05890	08180.
106.	4.150	25470	. 14800	15580	.07560	02350	07771.	.01140	.04350	5460	. 08510
106.	6.450	2×010	. 13470	26400	. 11930	03840	. 17720	.01190	.04530	. 05230	.08880
106	<b>8</b> . 740	22990	. 12210	35620	. 15740	05200	.17460	.01250	.04760	.05180	06160
106.	10.860	22530	.11600	44410	19180	06460	. 16890	.01280	.04880	05640.	07760
106.	320	26490	.15750	.02300	01080	.00280	. 16920	.01040	.03970	. 06230	. 08060
	GRAD 1 EVT	001:2	. 00041	04299	.01968	00E:7	.00123	<b>.81</b> 708	.00029	00153	00045

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

۲a	(1910)	RIC DATA	ORBING -		5			·					•	30 .06820		·		12:00:- 21
	12	PARAMETRIC	.000.		CABO	9.	.048	.0	3640.	940.	.046	.047	.048	.04830	940.	.049	, O.	. 000
			ALPHA - SPOILR -	97 5.00	CN3O	.01270	.01280	01510.	.01223	01510.	.01220	.01240	0.510.	.01270	. 31223	.01290	.01170	90050.
1125	7.075+213			val. • −5.00	CAF	.24480	.25030	. 26430	.27350	.27790	.27750	2834D	06×82·	. 29590	.28930	.27953	.28:10	. 00122
MSFC THE 622 (14125)	H VEHICLE,			GRADIENT INTERVAL5.007	<b>8</b> 5	. 08290	06890.	.05470	3740	. 22:00	97509.	5,00,10	02750	C0370	F.05973	07333	B: 700.	10500
	MSFC TWT 622 ITALES! LAUNCH VEHICLE, 74075+213			6.72 GRA	N.	22520	18903	14940	7.10540	06:42	01020	3960	02480	00151.	.16330	. 23353	0:20	. 52573
TABULATED SOURCE DATA,	TWT 622 11		976.0000 IN. XT .0000 IN. YT 400.0000 IN. 27	FN/L	Շ	.54540	.43660	.33:50	.22700	. 12813	.02050	08250	17993	29550	378:2	C1 : 60 1	. 92250	04452
TABULA			9.500	0 /65	r L	.10780	.1:760	.13180	01461.	.16973	.17750	17220	. 16290	. 14530	.13:50	11883	::7693	.00087
		CE DATA	SO, FT XMRP INCHES YMRP INCHES ZMRP	AUN NO.	Z	18690	÷.19510	20573	22950	24570	25513	24950	- 24252	- 22530	062.2 -	20652	7.25483	- 60125
52 1.		REFERENCE DATA	2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES		<b>BETA</b>	-12.040	-9.700	-7.330	-5 000	-2 663	- 340	216 -	213 +	6 623	096.9	11.232	252 -	GRAD!EsT
DATI 06 OCT			SKEF . S LREF . I BREF . I		#ACH	1.046	1.046	1.046	1.0.6	9+0.1	3.046	1.946	1 346	340	1.046	1.246	1.346	

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.05601
.07770 CABO
.04700
.04620
.04520
.04520
.04520
.04520
.04630
.04520
.04630
.04520
.04520 CAF 26530 27390 27390 29890 29890 29890 30540 30540 30500 30500 30500 CEL. 0.139. 0.130. 0.130. 0.130. 0.130. 0.130. 0.100. 0.00 . 55540 . 44270 . 33462 . 22740 . 12560 . 02430 . 16990 . 16990 . 47620 . 02490 CLM 10560 113160 11559 1 CA :: 18220 :: 18770 :: 23 10 :: 23 33 :: 24 860 :: 24 860 :: 25 33 : 9614 -12:40 -9.790 -5.030 -2.670 -2.670 -3.30 9.050 9.050 11:310 -3:0 GRADIENT 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103 1.103

DATE 06 OCT 75

TABULATED SOURCE DATA, MSFC THT 622 (TA125)

8

PAGE

MSFC THT 622 (114125) LAUNCH VEHICLE, 74075+213

. 65 x25 81 1 (RIN018)

PARAMETRIC DATA

See AC . 000 **50**. 000 ALPHA -

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GRADIENT INTERVAL . -5.00/ 5.00 . 3 -8 ₹ 8 2690.0000 50. FT 1290.3000 INCHES 1290.3000 INCHES SPEF . LREF . BREF . SCALE .

976.0000 IN. XT .0000 IN. YT 400.0000 IN. ZT

de it

REFERENCE DATA

CABE
.08620
.08810
.07890
.07890
.07890
.07890
.07890
.07890
.07890
.08130
.07810 CA85 .07610 .07360 .07110 .07140 .07140 .07140 .06730 .06730 .06730 CABO - 04.460 - 04.480 - 03.990 - 03.990 - 03.990 - 03.990 - 04.450 - 03.990 - 04.450 - 03.990 - 03.900 22000 22000 22000 22000 22000 22000 33012 30012 CBC. 08920 . 07270 . 07270 . 07270 . 07590 . 07590 . 07590 . - 011140 . - 04570 . - 04570 . - 059370 . - 05562 . - 05662 . - 05662 . - 05662 . - 05662 . - 05662 . - 05662 . - 05662 . - 05662 . - 05662 . - 05662 . - 05662 . - 05662 . - 05662 . - 05662 . - 05662 . - 05662 . - 05662 . - 05662 . - 05662 . - 0 CYN
- . 23640
- . 18740
- . 13790
- . 05900
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- . 05900
- . 05900
- . 05900 . 58340 . 5830 . 33280 . 11380 . 11380 . 1780 . 1780 . 27560 . 3940 . 1570 . 1570 CLM 0.07620 0.07630 0.07630 0.07650 0.07650 0.0760 CN - 16690 - 15170 - 15570 - 15570 - 17570 - 17570 - 17570 - 17570 - 17570 - 175570 9ETA -12.400 -9.990 -7.529 -5.590 -7.790 -7.700 6.770 9.230 -3.10 6.770 9.230 -3.10 6.770 9.230 

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				3			2012-1014	74075+213		のでいるこ	₹ 6: -	- 25 -
				•		, , , , , , , , , , , , , , , , , , ,						٠.
	REFERENCE	INCE DATA	₹						-	PARAMETRIC DATA	DATA	
Š	2690.0000 SC.	٠ ١ ١ ١	di s	976.0000	.0000 IN. XT				BETA -	000.	248:NC +	. 900
	1290.3000 :NCHES 1290.3000 :NCHES	\$ 55 \$ 55 \$ 55 \$ 55 \$ 55 \$ 55 \$ 55 \$ 55		0000 007	ž ž							
		ur.	75 NO.	0 / 3 4	RN/L	5.88 89	GRADIENT INTERVAL .	1AL • -5.00/	07. 5.00			
ξ	449	8		2	Շ	Š	륁	CAF	0 <b>0</b>	CABO	CABS	CABE
0	•	3	92700	.37620	.00270	90070	. 50530	027.1.	07010.	.03980	0690.	06610
	·		390	.30580	.00200	. 22939	00400.	. 12030	00010.	.03810	.06543	. 08530
60.		59:90	66:4	. 2*230	.00100	.03972	. 50330	.:2380	. 00960	0.03670	. 25963	04:80
68		-,44170	170	0777:	52416	.00360	.00:50	. 125:0	.03930	.03530	. 05533	. 08060
68.		30020	1323	. 12033	C082C	00100	09000	03581.	01800.	CC-10.	.05953	0100.
9		19650	5 <b>5</b>	. <b>067</b> : C	01033	er er er	365:0	2710	.00070	CORRO.	C-660.	.07*10
ê		ਰ	087:0	010.	0:#3C	.00800	60030	. 18850	.0000	CBSEO.	09660	Ę
9			. 1:320	02970	63330	03::0	33950	.:1820	.00830	03150	08280	.07360
100		¥,	25290	07919	02230	00800	00213	.10873	0.800.	03:30	. 06020	. 07260
6		3	10480	12790	02523	000000	- 50380	0600:	.00833	.03:83	CCEBO.	. 07020
ě	-	Ä	52000	- 17260	029:0	060:0.	07400	0.09630	C+800'	. 33200	. 26333	. 371 10
e e			- :6000	.05930	0.410.1	0:700.		.12560	. 00870	.03333	.05573	. 07-60
	8	å	5-950	02285	6-5CO	. CO3-2	20132	66000'-	11000	000*	. 63323	30055
		u.	Se No.	5. 0	PRV.	6.23	SAADIENT INTERVAL .	VAL5.00,	0, 5.00			
Z	AL PHA	Ö		ğ	បំ	N.	භ	343	08v3	CABO	CABS	CABE
600	•	-1.03410	014	.42820	04.750	0+900	.30390	.:3019	01510.	.04513	02690.	.09860
206		. 8	82210	33690	00323	.00560	04600.	. 13660	. 51 120	. 04290	.06880	.09320
506.		9	63260	.25900	0:590	. 31226	.00150	.14010	.0:070	.04090	. 26390	0:680.
206		3	45510	18460	52300	. 01530	03059	01141.	01030	0.680.	08650.	07780
205		χ.	- 289+0	.11860	026×C	0 K 10.	-,00160	.14510	06600.	.03760	0.5840	. 07940
206		= :	13840	.04550	52750	01510.	-,00280	. 1 3990	. 50960	. 03663	008300	.07730
206.		ĕ	.00900	01230	03080	.01720	90400	. 14060	.00930	.03550	. 05750	.076*0
-905		Ξ	.13570	05660	03280	28710.		. 13960	01600.	.03+80	02280	.07550
206		بن	273:0	09690	03370	.51670	00520	. 13200	. 00920	.035:0	. 26390	.07680
206		<b>5</b>	41130	13470	636+0	.01620	00533	. 12050	C•600·	.03580	05570.	.07950
206.	-	ð,	55370	19350	02953	.01120	00530	. 12080	01600.	03*80	06170.	.07220
206			13170	04460	01810	01130	00140	14310	04600	03590	.05820	.07610
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			<b>¥</b>	THT 622	14'25' LAU	MSFC TWT 622 (14.25) LAUNCH VEHICLE, 74015+213	74075+213		1810N191	AUC 81 7 19	z K
	REFERENCE	ENCE DATA						_	PARAME "RIC CATA	CATA	
SPEF . LREF . BREF . SCALE .	2690.0000 SQ. 1290.3000 INCH 1290.3000 INCH	SQ. FT XHRP INCHES YHRP INCHES ZHRP	976.1	976.0000 IN. X7 .0000 IN. Y7 400.0000 IN. Z7			<b>5</b> 5.	BETA . SPOILR .	000.	ORB!NC -	000.
		BUN NO.	47/ 0	• PAN	Ø 8	GRADIENT INTERVAL	WAL5.00/	5.00			
PAQ.	ALPHA	ž	5	Շ	CYN	<b>16</b> 5	3	0 <b>0</b>	3480	CABS	CABE
<b>6</b> 6.	-14.030	-1.16110	.51350	06600	00070	06+60	.20380	.01580	. 06000	.08610	10860
8	-11.360	91430	.40390	02400.	.00250	.00350	.20600	.01+30	.05510	06880.	.10390
<b>8</b>	-8.75	70390	31740	50030	06480	.00230	.21950	.01370	.05210	. 08580	01660.
<b>6</b> 6.	-6.190	51920	.24350	-,03249	02400	.00:80	.22540	. 51320	.05020	.08330	.09330
<b>6</b> 6	-3.620	3+360	. 17000	00533	.00500	.00120	.21480	.01260	.04790	01770.	05060.
66	-1.100	17550	.10210	01030	.00770	.0033	.21610	.91150	.04380	.07~60	01580.
<b>6</b> 6	1.283	03360	.04120	013:0	. 60950	- 00050	.21970	.01240	.04730	07790	.08950
<b>\$</b>	3.770	. 13430	03450	01753	.01070	0:200	07115.	0.240	.04720	.08320	C+680°.
<b>6</b> 6.	6.270	. 29.4°	10170	01920	0.010	00330	.21160	.01220	.04660	.08380	.08560
<u>8</u>	6.810	00644	-, 15020	02:50	.00950	05450	19760	.01230	.04700	.08730	.08700
666	11.990	. 58050	20250	01930	.00520	00333	06781.	.01210.	.04600	. 08683	. 08280
666.	-1.970	17719	.10732	01090	C1800.	01000.	.21660	.0:230	.04700	.07860	. 08920
	GRAD! ENT	6:490.	02747	0015!	.00065	-, 00044	00028	.0000	.00005	.00051	90060.
		P.S. NO.	0 /P,	RN/L .	6.58	GRADIENT INTERVAL .	VAL5.00/	5.00			
MACH	AL PHA	3	S	Շ	Z Z Z	rej V	CAF	08	CABO	CA95	CABE
47	-14.200	-1.1700	.51600	.01220	00250	. 00550	. 22550	.01500	.05720	01880.	13420
2	-11.580	93240	. 41250	.00580	01100.	02400 .	07785.	.01290	01640.	. 08750	. 09562
1.957	-9.960	70610	.31590	.00510	.00220	. 30300	.24470	.01180	01050.	.08330	01060.
27	-6.260	51580	S-050	00169	01*00.	06:00.	. P4555	06110.	.04530	.08120	. 08720
1.047	-3.700	345:0	. 17370	00520	.00550	. 00150	. 24760	.01150	.04370	.07930	00%00
87	-1.130	18050	.11000	00920	.00730	.00030	.24360	.01130	.04300	.07980	.08300
1.047	1.29c	01750	.03310	-,01%	.00860	00093	.24670	.01120	04570	07570.	.08170
1.87	3.770	. 14310	03970	0:540	01600.	-, 00190	. <del>2</del> 390	.01070	080€0.	.07540	02770.
Q.	6.323	35865.	- 39420	01520	36700.	50270	0.230.	02110.	. WES	.TEC10	07970.
1.047	8.820	09644.	14859	01890	.00800	00340	.22560	. 01080	.04130	. 08250	.07343
1.047	11.140	.57690	19760	-,01930	. 00550	00300	.21440	0110.	.04320	.08510	.07250
3	-1.100	17420	0880	01050	00770	01000	00016	5	500	0000	02000
			,,,,,,				0004		205.	0000	9

TABULATED SOUNCE DATA, MSFC THT 622 (1A!25)	MSFC "WT 622 (TAI25) LAUMCH VEHICLE, 74075+213	
DATE 06 OCT 75		

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.003 2 (RIN019) ( 19 JON 75 PAGE • SMigoc PARAMETRIC DATA 88. BETA -976.0000 IN. XT .0000 IN. YT 400.0000 IN. ZT REFERENCE DATA 2690,0000 50, FT 1290,3000 (NORES 1290,3000 (NORES 1000) 5965 - 5965 - 500

		PCN NO.	0 /64	RN/L .	6.65 GA	PRADIENT INTERVAL	/AL5.00/	5.00			
Ş	ALPHA	8	į	Շ	CYN	69	SA.	080	CABO	CABS	CABE
101	-14.480	-:.21700	.53900	.01370	00110	. 20520	25120	. 31460	.05570	.08280	09260
101	-11 750	95862	,42700	.01180	00130	. 02430	25+03	.91293	CF643.	.08+80	0.360
	020 6-	- 73495	.33660	0+500	00150	CEECO.	. 25930	.01220	. 34643	C6+30.	08:60
101.1	-6.409	- S4450	.26250	.00950	00213	00200	. 25:53	081107	.04500	.08100	. 29923
101	-3.800	37009	. 19303	. 33250	.00190	C9. CD.	C++52.	07110	C9840.	.07793	. 28560
101	-1.203	19460	.:2320	98140	02400	. 30393	. 26440	080:0.	04140	229-0.	. 08390
<u>.</u>	1.283	03060	.04833	00450	01800.	60030	. 25350	.01080	36:30	.67339	383837
101	3.775	::3729	63979	016007-	. 30692	00130	25790	.31060	.04790	.37453	539-57
101	6.350	.33253	-, 09032	01310	09400.	00330	.25:70	230107	020370	.07523	01+13.
101	c) () ()	058541	15230	6:8:0	01010.	00330	24240	040101	. 23973	09860.	036901
<u> </u>	11.220	0.59950	-,23:52	0:823	.20763	E+E00	01622	01050	24040	.08233	.35723
5	11.170	1.18640	. 12090	30363	.02533	.00033	. 25230	01000		.07653	0**80.
	GRADIENT	26565	-, 02962	00150	.00063	680007-	9000	010001-	03036	00051	25:22

		2	200	ı K	2.0	GRADIENT INTERVAL5.00/	IVAL5.03/	6.6			
MACH	AL PHA		5	۲	S C		CAF	CABO	C843	CABS	CABE
149	-14.730	-1.24370	.53850	01010	00350	. 33619	06755	.01390	.05280	.06720	0.09943
1.149	-12.000		.43120	00880	0.400'-		.26910	.01280	04830	01680.	-£60.
1.149	-9.203		.33750	.00930	00430		.26110	.01250	.04763	. 08820	. D934
1.149	-6.510		.25130	.00643	00380		. 26350	.01193	04510	.08420	2560
1.149	-3.870		. 19250	061007	00133		. 25750	.01:20	. 04250	02670.	C360.
. I <del>4</del> 9	-1.220		. 12250	06000.	-, 90240		. 26733	.01090	.04150	.07763	C 89.
1,149	002.1		.04580	-,00090	0250		.25470	.01100	061+0	.07570	.583:
1.149	3.620		63120	00480	-,00050		26150	01110.	. 04220	.07750	DC80.
1.149	6.460		09670	00563	02083		. 25780	06010.	.04150	06770.	.6775
1.149	9.990		15890	00930	.00020		.2.760	.01:20	.04260	.08100	.07:9
1.149	11.350		20483	01600	.00260		. 23240	.01163	04413	. 08390	:370.
1.149	-1.160		.12110	00180	00190		. 26550	.01053	. 04063	. 67500	.08:5
	GRAD 1ENT		02921	00086	C1000.		03380	10000	00002	00031	

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OATE 06 OCT 75	CT 78		TABLL	TED SOURCE	TABULATED SOURCE DATA, MSFC THT 622 (18125)	THT 622 (1A	<u> </u>			PAGE	65
			¥	THT 622 (1	MSFC TWT 622 (TA125) LAUNCH VEHICLE, 740TS+213	4 VEHICLE. 7	*0TS+Z13		(RIN020)	NOT 61 ) (0	ž Š
	REFERENC	NCE DATA						•	PARAMETRIC DATA	DATA	
SREF BREF SCALE	2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES	SQ. FT XHRP INCHES YHRP INCHES ZHRP	976	976.0000 IN. XT .0000 IN. YT 400.0000 IN. ZT		•		ALPHA - SPOILR -	000.	ORBINC .	000
		RUN NO.	0 /96 .	RN/L =	5.96 GRA(	GRADIENT INTERVAL .	AL5.00/	00.2 /0			
N.	BETA	8	ភ្ជ	Ç	N.	평	CAF	0 <b>8</b>	CABO	CABS	CABE
. 800	-11.400	14320	.05750	. +8370	20540	.06330	.09730	.01060	04040	.07560	00160.
. 800	-9.270	13860	. 05620	. 39820	17610	. 05560	. 10660	06600 .	.03760	.07200	.08720
.800	-7.010	13950	.05790	. 30720	13970	00**0.	.11330	00600.	.03690	.06870	.08380
.800	±.790	14390	.06160	.21390	01660	.03050	.11800	04600.	.03600	.06470	08080
.800	-2.550	15320	.068:0	.11630	05500	.01619	. 12500	00600.	.03450	.06110	0.7840
. 800	310	15810	.07190	. 02340	-,01190	. 00460	. 12880	. 00060	.03283	. 05620	.07400
.800	1.880	14040	.05860	07000	.03280	00750	13940	06800.	.03380	.05130	.07330
.800	¥.090	14080	.05700	15550	.07140	-,01930	. 14360	.00930	03240	04840.	.07520
.800	6.340	14290	.05640	25470	.11800	03410	. 13480	01010	.03830	.04560	.08070
.830	8.600	15130	.05830	-,35300	.15970	04720	. 13290	.01050	.03980	04940	.08650
.800	10.690	14700	.05480	43310	. 18870	05630	. 13050	08010.	04110	.04610	00680.
. 800	310	15640	.07:90	. 02480	91310	04400.	. 12580	01600.	.03470	.05820	.07590
	GRADIENT	. 00085	<b>-</b> .0009 <b>∗</b>	04169	.01932	00553	.00295	00001	00009	00191	00072
		RCN NO.	0 / 16 .	FR/L	6.25 GRA	GRADIENT INTERVAL -	אר5.00/	00.5 70			
Š	¥1.5.	3	ş	Շ	Š	ස්	Ç.	CNBO	CABO	CABS	CABE
006	-11.66u	13170	.05160	.52390	22950	.07430	.11880	.01200	.04560	.08020	01260.
006.	-9.470	11860	.04470	00×5×.	19010	. 06070	. 12950	.01160	04410	.07750	. 09020
900	-7.170	10950	.04020	32510	15060	06440.	. 13660	.01090	.04150	.07+30	. 08610
906.	7 B80	10690	.03960	.22740	10880	.03310	.13940	.01050	0.0.0	0.0000	. 08330
906	-2.600	10500	.03820	. 2350	06090	.01690	. 14590	06600.	.03770	.06520	.07640
906	300	11100	.03950	.01440	00560	.00170	14640	. 00960	.03679	.06190	.07220
900	1.940	10390	.03320	09150	0.6810	01190	. 15150	.01000	.03820	.05750	.07430
906.	4.190	10699	03413	18440	05050	02490	. 15450	06010.	07.70.	.05330	. 07750
006	6.460	10960	.03580	28040	. 13320	03870	. 15550	.01120	.04250	.05050	. 08350
006	9.770	12130	.04140	37880	.17560	05380	. 15550	.01210.	.04630		00680.
900	10.910	12930	0.040	46930	.21210	06710	01361.	.01230	.04.700	0.50	08060
906	330	10990	03380	.01930	-, 00840	.00260	016*1.	.00950	.03630	00190	.07150
	GRADIENT	50000	00070	04587	. 02236	00639	.00158	.00003	. 990	00187	00061

				<b>35</b>	: TWT 622 (	IAIZSI LAUN	MSFC THT GZ2 (1A125) LAUNCH VEHICLE, 740TS+213	74075+213		(R1N020)	ADC 61 7	\$ 15
	REFERENCI	RENCE DATA	4						•	PARAMETRIC DATA	DATA	
SPEF .	2690.0000	5.	<b>SE</b>	9.906.0	976.0000 JN. XT				AL PHA	.000	ORBINC =	.000
LAEF . BREF .	1290.3000 1NC 1290.3000 1NC	INCHES	¥ \$	0.003	.0000 IN. YT				SPOILR .	. 000		
		œ	₹. 16	8	RN/L .	6.48	GRADIENT INTERVAL .	VAL = -5.00/	5.00			
¥,C¥	BETA	3		r r	Č	Š	ģ	38.	<b>6</b> 00	CABO	CABS	CABE
- 2.	•	'	3020	. 39150	.57350	- 2×980	0880.	07155.	.01340	.05100	09260	01760.
- 040		014563	565	.08380	.45630	20483	.07380	. 234:0	.01260	.04830	. 29030	. 09290
0.0			1793	.08050	.34290	15873	02850.	CHARLO.	.01220	04940	08880	. 98783
9.0		07171-0	97	. 08720	0-33-0	11040	04010	038-A.	061101	.04530	.08750	.09550
1.048		•	02641	.09530	.12770	06170	02270	25193	.01130	. 54325	. 08569	.08320
9.0	315	•	15630	08:01:	.01850	-, 00900	0.400	.25200	.01130	.04200	. 58330	;
1.048		•	. 15355	08880	08939	CEMAC.	0:350	09732.	6) 10	.04370	0.950	. 29153
1.048	3 4.28≎	í		04460.	19020	03200.	33599	. 25. E.	0.5.0	047:3	Carro.	CE833.
1.046		٠	52.4.	. 38530	29590	02621.	01810 -	. 25010	.0:300	04640	041190	08080
1.049	050 6 030	·	095***	0:790	00.04	8203	-, 06400	.26543	288.0.	09670.	. 35483	04680°
1.548	_	•	0.191	00000	50653	.22333	2967-	25390	CIMIC:	02050	06340	.09260
0.048		•	38	097011	.01930	0:099	00410	.25.35.	57:18	08830	1.08403	.09050
	Š	•	:	92350	04593	5:55:	:9-50	50:55	30000	£1000°	03129	9.
		a	9 3	0 /;5	PAN'T	6.52	SAADIENT "ATERVAL5.007	VAL5.0(	00.5.00			
MACH	6€14	ક		r.	Շ	2	CB.	CAF	CONO	CABO	CABS	CABE
€0.	-12.160	015230	K-330	.08000	07773	24380	.09230	. 2×590	.01390	. 05250	04060.	.09890
1.098	9-9.810		5963	36183	. 45250	19523	. 37532	25400	.01380	.05240	.08880	. 09520
3.096	9 -7.370	05080	2609	.08790	.33760	:5:00	. 05830	. 25800	.0:360	.0520	. 08930	. 09210
1.098		00:91 - 0	130	.:0050	.22580	10370	04040	.26:60	.01309	04640.	.08960	. 09020
1.098	3 -2.660	. 16563	560	.13570	. 12250	05810	. 02220	. 25323	0.510.	04730	. 09800	. 08920
1.098	300		74.9C	.11500	.01680	-,00950	.00383	25533	.01210	. 24620	. 08560	.08843
1.098			920	.11139	08570	.03883	01340	.26982	.01280	.04860	. ne290	08880.
- 038	320	166:3	5:9	.10530	18360	.08270	03040	203€5.	.01280	06840.	.07760	.09080
1.098	1 6.720	715340	340	34760.	29300	.13129	54936	.27590	.0:320	. 25240	.07390	. 09520
1.098		05:31 0	1.20	04060.	05104	07271.	06583	.27350	.01380	.05240	.07130	. 09920
960 ~	_	16-10	<u>.</u>	.08503	51180	.21140	08110	57440	.01380	. 05270	.06930	0+860°
1.098	_		683	11620	0.770	00010	00200	02.030	250,0	00000	01790	08950
							•		,	2		

一次年の日の一年の大学の主は関いまりを確しているとこ

SECTION SCIENCE DATA  RAN NO. 537 0 RN/L = 6.63 GADDIENT INTERNAL C -5.00/  RAN NO. 537 0 RN/L = 6.63 GADDIENT INTERNAL C -5.00/  RAN NO. 537 0 RN/L = 6.63 GADDIENT INTERNAL C -5.00/  RAN NO. 1250 0 -1250 0 00330 0										•	SO E 1030NINI	י פ
## 1250.3000 HC/CS 7999 • 976.0000 IN. XT  ## 1250.3000 HC/CS 7999 • 400.0000 IN. ZT  ## 1250.3000 HC/CS 7999 • 400.0000 IN. XT  ## 1250.3000 HC/CS 7999 •		REFERE	4-4							PARAHETRIC DATA	DATA	
RAM NO. 537 D RNIL • 6.53 GRADIENT INTERVAL • -5.00  251 -12.38019660 .06690 .0592028260 .07930 .27930  251 -2.680112940 .05710 .9566018880 .07930 .27930  251 -2.680112940 .05710 .95660 .013310 .07930 .27930  251 -2.690112940 .05570 .11340 .09770 .01940 .27230  251 -2.690112940 .05650 .11340 .09770 .01940 .27230  251 -2.690112940 .05650 .11340 .09730 .07390 .27230  251 -2.690112940 .05650 .11340 .09730 .07390 .27230  252 -2.690112940 .05650 .06690 .07970 .01940 .27230  253 -2.690 .09730 .11340 .09530 .09530 .09730 .27230  254 -2.690 .09730 .11340 .00690 .00690 .00630 .00690 .27960  255 -11.600 .09730 .06690 .00690 .00690 .00690 .27960  256 -2.690 .00690 .00690 .00690 .00690 .00690 .001300  257 -2.690 .00690 .00690 .00690 .00690 .00690 .00190  258 -2.690 .0060 60. FT XMRP = 978.0000 IN. XT  2590 .0060 .00690 .00690 .00690 .00690 .00690 .19010  2590 .00690 .00690 .00690 .00690 .00690 .00690 .19010  2590 .0060 .0060 .00600 .00600 .00690 .00690 .19010  2590 .0060 .00690 .00690 .00690 .00690 .00190 .19010  2590 .0060 .00690 .00690 .00690 .00690 .00190 .19010  2590 .00690 .00690 .00690 .00690 .00190 .19010  2590 .00690 .00690 .00690 .00690 .00190 .19010  2590 .00690 .00690 .00690 .00690 .00190 .19010  2590 .00690 .00690 .00690 .00690 .00190 .19010  2590 .00690 .00690 .00690 .00690 .00190 .19010  2590 .00690 .00690 .00690 .00690 .00190 .19010	6.6			975					ALPHA - SPO!LR -	300°.	0482MC •	. 000
## BETA CN CLM CY CYW CGL .09300 .25910 .259			RCN ND.	53/ 0			ADIENT INTER		9.00			
12.380   -1.1950   0.9490   0.5920   -24240   0.9330   0.25910	Ž		3	5	Շ	CYN	ਲ	SAS.	CMBO	CABO	CABS	CABE
1251   -9.980   -1.129-0   .03710   .45660   -1.0880   .07490   .28950   .27290	R.	_	14660	06+90.	.58920	- XX	00160	01652	.01210	.04590	.08180	.08680
-251 -1990 -112020 093779 .33140 -113810 075560 .27250 .27290 .27391 -2.680 -112020 05562 .21470 -108990 03799 .27230 .27230 .27230 .27230 -112040 0.6649 0.03260 -00330 .27230 .27230 .27230 -112040 0.6649 0.03290 -00330 .27250 .27230	Ë		12940	.05710	. 5660	18880	06460.	. 26560	.01200	.04580	090_0.	.08360
-55. 160 - 11970	¥.		12020	CTT20.	33140	13810	. 05860	.27290	07110.	09110	.07770	.07930
### Carry	ŗ.		11970	. 86253	07415.	-, <b>0889</b> 0	.03790	. <b>2</b> 7230	.01100	00270.	.07790	.07990
### CAN	Ž.	,	11750	.65303		0.04770	03610.	. 27320	08010	.04133	.07870	.07820
### CANDOR	N.		12040	. 36643		00+30	.00330	. 27560	010.	. 7.3950	.07220	. 07690
### Carron	¥.		18080	. 06520		.03510	-,01230	01672.	.01080	. <b>2</b> 20	06890	.07820
-251 6.79013320 .0669988750 .1314004820 .28250 .27540 .2574 .13789 .0552940510 .1670006540 .27940 .2751 .11.60014900 .0552940510 .0134006180 .27940 .2751 .11.60014900 .05529 .0134006180 .27940 .2751 .230014900 .05526 .013400017606180 .27910 .27910 .00200 .0134001340 .0175600591 .00150 .27910 .27910 .27910 .27910 .27910 .27910 .27910 .00200 .0175600591 .00150 .27910	¥.		12620	.05570		. 07630	02950	28380	01110	06230	.06580	04080.
-251 9.26013782 .0532940512 .1670006540 .27940 .2751 11.60014900 .0542952739 .2138008180 .27760 .27760 .2751 11.60011470 .05240 .01340 .00570 .00340 .27760 .27760 .27810 .27810 .0053011470 .0525001340 .00570 .00340 .27760 .27760 .27810 .2782	λį –		13320	. 06690	28753	. 12140	04820	. 28250	.01150	.04390	. 06400	0260
### CRADIENT14900 .C6+5952739 .2138008180 .27750 .27500874027750	<b>X</b> .		13783	.05329	-,40513	.16700	06540	0.675.	.01193	03630	00,50	. 08953
## CRADIENT30011470 .05240 .0134000570 .00340 .27810 .00840 .00831 .00150 .00840 .00831 .00150 .00831 .00150 .00831 .00150 .00831 .00150 .00831 .00150 .00831 .00150 .00831 .00150 .00831 .00150 .00831 .00150 .00831 .00150 .00831 .00150 .00831 .00150 .00831 .00150 .00831 .00150 .00831 .00150 .00831 .00150 .00831 .00170 .00831 .00830 .1980 .00830 .00830 .1980 .1980617043750 .00840 .0017000850 .00830 .1980 .1980617000840 .00830 .1980 .198067000830 .00840 .1980 .198000830 .00840 .19810 .1980017000850 .00830 .00830 .19810 .198067000830 .00830 .00830 .19810 .198067000830 .00830 .00830 .19810 .19806700084001890 .00310 .188006700084001890 .00310 .00840 .188006700084001890 .00310 .1880067000084001890 .00310 .1880067000084001890 .00310 .19800 .1880067000084001890 .00310 .1880067000084001890 .00310 .1880067000084001890 .00310 .1880067000084001890 .00310 .1860067000084001890 .0031067000084001890 .003106700008400082000870	Z.		14900	. 66459	-,52739	.21380	08180	.27750	.01220	07970	.05210	C9690.
######################################	ĸ.	_	11470	. 96240	013+0	00570	07800.	01872.	01010.	03840	.07:00	. 0752
#SFC TWT 622 (1A125) LAUNCH VEHICLE, 7707415-213  #EFFERENCE DATA  = 1290.3000 INCHES YMP = 976.0000 IN. XT  = 1290.3000 INCHES YMP = 400.0000 IN. XT  E = .0040  E = .0040  MCH ALPHA CN CLM CY CYN CRL CAF		GRADIENT	00110	.05030		95410.	00691	.00150	.00006	. 00020	67100	.000 ·
# EFFERENCE DATA  - 2890.0000 SO. FT XMRP = 978.0000 IN. XT  - 1290.3000 INCHES YMRP =0000 '4. YT  - 1290.3000 INCHES ZMRP =0000 '4. YT  - 1290.3000 INCHES ZMRP =000.0000 IN. ZT  - 1290.3000 INCHES ZMRP =000.0000 IN. ZT 00400040 0040				£	TC TWT 622 (	141251 LAUN	CH VEHICLE.	7707475-213		(RINDEL)	27 NU. 81 19 118	<b>5</b>
- 2890.0000 50. FT XMRP = 976.0000 IN. XT		BEFERE!	-							PARAMETRIC DATA	DATA	
E = 1290.3000 INCHES ZHRP w 400.0000 IN. 27  RUN NO. 15/ 0 RN/L ~ 5.93 GRADIENT INTERVAL ~ -5.00  ROH ALPHA CN CLM CV CTN CR. CAF  798 -6.8902500 .001700020 .0020 .19400  798 -2.47043750 .19270 .0059000350 .00170 .19410  798 -2.47017400 .0914000570 .00050 .00170 .19110  798 4.180 .09330 .0054001350 .00350 .00190 .13110  798 6.410 .294001350 .00350 .00100 .13110  798 6.410 .294001350 .00350 .00100 .16070		2000.0005 ·	F 5	976	.0000 IN. XT				BETA .	. 000	- 0461NC -	.000
ALPHA CN CLM CV CYN CR CR CAP 134 6 194 6	1	0.00.		,								
ALPHA CN CLM CLM CY CYN CGL -6.895095960 .24100 .0017000020 .00240 -4.71043750 .19270 .0058000350 .00290 -2.47030460 .143600017000020 .00230 -2.47017400 .0914000500 .00230 .00170 27017400 .0914000500 .00250 .00190 270185600456001350 .00350 .00080 27015650 .0870001310 .00110 .00120			RUN NO.	15, 0			ADIENT INTER	•	9.00			
-6.8908590 .0017000020 .00220 .	Ş		5	ğ	Շ	CTR	뜡	<b>S</b> S	0 <b>9</b> 43	CABO	3	CAR
-2.470 -30460 14360 -00580 -00230 00230 -2.470 -30460 14360 -00170 -00020 00230 -2.470 -17400 09140 -00170 -00030 00170 -	Υ.		55900	S		00020	00500	84. ·	0.010	03860	32.6	00000
-2-470 -30460 143600017000220 .0023027017400 .0914000500 .00200 .0017001760 .0017002030 .0017002030 .00170 .0017002500 .00240 .00240 .00240 .00250 .00	K.		43750	. 19270	.00500	00350	06200	010*1.	0.600.	0.000	0.000	.07250
1.920 - 0.1040 0.0930 - 0.0050 0.0070 0.0070 1.920 0.0070 0.0070 0.0070 1.920 0.0071 0.0070 0	Υ.		30460	14360	00170	00020	. 00230	14020	.00930	ONEO.	.05670	.07090
0+100. 05000. 0050000410. 00100. 00000. 00000. 00300. 00300. 00300. 00300. 00300. 00300. 00300. 00300. 00300. 00300. 00300. 00300. 00300. 00300. 00300. 00300.	Υ.		1700	03160	00500	. 02030	.00170	.141.0	. 00880	.03370	.05520	.05880
0.0000. 05500. 0550 0.350 . 0550. 051.4 0.100. 01500. 01510 0.6%0 06.455. 014.6 0.0000. 05500. 05600 00760. 05600 075.	Υ.		0.170	.04563	00670	. 00060	00140	13750	. 00880	.03360	09250	01690
05100, 01510 - 04540 - 04540 00310 00310 00500 00500 00500 00500 00500 00500 00500 00500 00500 00500 00500 00500 00500 00500 005000 00500 00500 00500 00500 00500 00500 00500 00500 00500 005000 00500	r.		05260.	.00243	01350	.00350	08000.	01181.	06800.	.03380		06820
00000. 05500. 08600 00180. 05891 015	۲.		23490	- 950	01510	00310	.00120	12070	06800.	03380		.06790
	2						: 1					

THT 522 (1A125)	
TABULATED SOURCE DATA, PSFC THT 522 (TALPS)	
DATE DO OCT 75	

「「「「「「「「「「「」」」」「「「「「「「」」」」「「「「」」」「「「「」」」「「「」」」「「「」」「「」」」「「」」」「「」」「「」」「「」」「「」」「「」」「「」」「「」」「「」」「「」」「「

Name		¥EFERE	REFERENCE DATA								PAPAMETRIC	DATA	
NATION   16   0   0   0   0   0   0   0   0   0	SPEF LREF BREF SCALE	2690.0000 5 1290.3000 1 1290.3000 1			400.0	i i i				BETA .	. 200 200 - 300		
1.850  57150  57250  01670  01770   -			3	ġ	0 /91	• 1,748		ADIENT INTER					
1.50  57150  52150  52630  10550  10520  10020  15700  15700  15700  15700  15200  100200  15900  10020  100200  10	#ACH	A Pt	3		נה	ť	20	g	CAF	9	CABO	CABS	CABE
Name	85		5715	Ö	25030	- 70160	27130.	. 20050	. 15760	.01120	0.04260	.06370	.08220
1.560   1.1340   1.0950   1.0250   1.0110   1.6410   1.0103   1.0380   1.0900   1.			4203	9	. 19260	3500	04600.	00320	15970	.01990	06150.	. 05990	. 08060
1.950  19840   .	8		2846	Ó	.13120	00950	0.00510	00119	. 16410	.01030	.03923	. 06000	. 07990
1.866	66		20. I	0	.07*80	00880	.02580	00:00	.15980	01010	0.03970	.05070	. 08050
1.35	8		0053	9	.0:590	01370	.00560	00123	. 15350	.00950	.03540	.05030	.07490
CALCACA   C. 17730   C. 17720	86		. 1334		03510	01580	.03666	22280	.14760	.00953	.03570	01:50	.07500
March   Marc	8		.2739		07770	02093	05730.	33280	. 14130	08600.	.03730	.06480	.07620
CAMADIENT   .06210	86		1.1451	c	.07350	01160	01400.	-,00150	. 15480	01010.	. 03960	. 26000	.07930
ALPHA   CN		ORAD! ENT	. 0621	•	. 02555	60124	.5333:	00084	002+3	00015	03056	S1000.	000.73
1.00	MACH		S		ני	Շ	CAN	정	CAF	CAR	CABO	CABS	CABE
3         -4.750        49760         .62760         .00470        60040         .60040         .61990         .04150         .04150         .01820 <td>ğ</td> <td></td> <td> 5958</td> <td>0</td> <td>.283+0</td> <td>.00720</td> <td>00390</td> <td>.00180</td> <td>. ≥3<b>96</b>0</td> <td>0110.</td> <td>.0~320</td> <td>07*70.</td> <td>. 08+30</td>	ğ		5958	0	.283+0	.00720	00390	.00180	. ≥3 <b>96</b> 0	0110.	.0~320	07*70.	. 08+30
3         -2-440        28950         .16210         .00270        00260         .00040         .24060         .01040         .03970         .06900           5        190        15160         .10260         .00040        20220         .00040         .23550         .01100         .04140         .01160           5        190         .15160         .00260         .00050         .23250         .01100         .04110         .06950           5        200         .19020         .00513         .00050         .23400         .01100         .0410         .07410           5        200         .14700         .09390         .005130         .00050         .23560         .0110         .04900         .07410           5        200         .14700         .09390         .00130         .00050         .23560         .0110         .07400         .07410           6.610         .14700         .09550         .00130         .00010         .00010         .00010         .00010         .00000         .00000         .00000         .00000         .00000         .00000         .00000         .00000         .00000         .00000         .00000         .00000         .00000 <td< td=""><td>ğ</td><td></td><td>4376</td><td>o</td><td>. 22080</td><td>00*10</td><td>0.000</td><td>06100</td><td>. <b>2</b> 1 30</td><td>060:0.</td><td>05170.</td><td>.07120</td><td>.08060</td></td<>	ğ		4376	o	. 22080	00*10	0.000	06100	. <b>2</b> 1 30	060:0.	05170.	.07120	.08060
6         -190         -115160         .10260         .00040         -24800         .01090         .0410         .07180           5         2.040         .00350         .02030         .02250         .00300         .03250         .01150         .0410         .06500           5         2.040         .00350         .00350         .00350         .00350         .00350         .00350         .00350         .00400         .01150         .04400         .07410           5         6.610         .30220         .00550         .00350         .00350         .23400         .01150         .04200         .07410           5         6.610         .30220         .00550         .20200         .00160	ğ	•	2895.	9	. 16210	0.500.	55629	.00090	.24060	0,010.	03970	. 06900	.07800
S. Obrollo         10350         -00350         -00350         -00350         -00350         -00400         -00410         -00550           S. Obrollo         1960         -0050         -0050         -0050         -0050         -00150         -00400	ğ		1516	9	. 10260	04000	00020	0.000.	. <b>₹8</b> 00	.01090	04140	.07180	. 07983
5         4,300         1,4820         -,05520         -,00550         -,00570	8		0032		.03173	F. 00: 10	. 32330	.00030	. 23250	.01080	04110	. 06950	061 <b>8</b> 0
6.610         .30020        00590         .00030        00590         .20020         .00100         .03400         .07440           GRADIENT         .06486        0295         .00136         .02050         .21580         .01100         .03850         .06730           GRADIENT         .06486        02953         .00136         .00015        20100         .00228         .00236           ALPHA         CN         CLM         CY         CYW         CR         CAF         CABO         CABO         CABO           3         -7.070        60110         .28720         .00390         .00160         .27200         .01260         .0480         .0080           3         -2.440        29610         .17170        00120         .00090         .00160         .27500         .01260         .0480         .07460           3         -2.440        29610         .17170        00120         .00090         .27500         .01260         .0480         .0740           4         .260        29610         .10760         .00040         .00050         .27500         .01260         .0480         .0740           4         .260         .10760         .0	8.		1482		03620	-,005:0	08000	01000.	. ₹3400	.01150	00**0.	014/0.	. 08330
CARDIENT   .06+86	<b>8</b> 5		.3002		.09390	00690	00000	00050	.21943	.01100	. 24200	04460.	. 08130
GRADIENT         .06466        02853        00136         .02015        00100         .00007         .0028         .00028           ALPHA         CN         CLM         CY         CY         CR         CAF         CNBO         CAB0         CABS           3         -7.070        60110         .28720         .00160         .00160         .00487         .00840         .00160           3         -4.760        6410         .28720         .00160         .00480         .00160         .00480         .00890           3         -4.760        44150         .28720         .00160         .04870         .00890         .00780         .00160         .04870         .00890           3         -4.760        44150         .28720         .00160         .04800         .00890         .00160         .2720         .01280         .04800         .07800           3         -4.760        15860         .10750         .00230        00250         .01770         .04500         .07800           3        180        1880        00240        00010         .28560         .01700         .04690         .07300           4        180        180 </td <td>8</td> <td></td> <td>1470</td> <td>0</td> <td>. 89523</td> <td>. 00130</td> <td>363007-</td> <td>.00020</td> <td>. 23580</td> <td>01010.</td> <td>. 03850</td> <td>. 06730</td> <td>00776.</td>	8		1470	0	. 89523	. 00130	363007-	.00020	. 23580	01010.	. 03850	. 06730	00776.
ALPHA CN -60110 -28720 .00390 .00150 .27200 .01280 .04870 .08140 .07070 -197.0 .22630 .00230 .00080 .00110 .27200 .01280 .04870 .08140 .07650 .22440 -129810 .17170 -10120 .00210 .00080 .00110 .27740 .01260 .04800 .07650 .07640 .01260 .01260 .04800 .07650 .07640 .01260 .01260 .04900 .07650 .07640 .01260 .01260 .04570 .07640 .07650 .07660 .07650 .07660 .07650 .07660		GRADIENT	.0648		. 02853	00:36	01600.	00315	30100	.00007	. 00028	. 90028	1×000.
ALPHA         CN         CVY         CR         CAF         CNBO         CABO         CABO           3         -7.070        60110        28720         .00390         .00150        2720         .01280         .04870         .08140           3         -4.760        44150         .22630         .00230         .00110         .27440         .01260         .04800         .07850           3         -2.440        29610         .17170        00120         .00210         .00060         .27520         .01260         .0740           3        180        15650         .17170        00120         .00050         .28930         .01270         .0740           3        180        16250         .10760        00240        00010         .28550         .01170         .04450         .0740           4         360         .10220        00240        00010         .28550         .01230         .04690         .0730           4         3669         .30430        00742         .00010        00290         .01230         .01230         .04690         .0730           4         360         .30430         .00080        00090			\$	ġ		- 1/NE		ADIENT INTER	TVAL = -5.00				
3         -7.070        60110         .28470         .00390         .00150         .27200         .01280         .04870         .08140           3         -4.760        24810         .1717         .00210         .07500         .00110         .2740         .01260         .04800         .07840           3         -2.440        29810         .17170        00120         .00200         .00500         .27500         .01260         .04740         .07840           3        180        18250         .10760         .00040         .00050         .27520         .01270         .07400         .07400           4        160        00440        00040        00010        26550         .01170         .04450         .07000           4	MACH		3		2,	Շ	7	SB.	CAF	CNB0	CABO	CABS	CABE
-2.44029910 1717000130 .00200 .00110 .2752 .01560 .04800 .07650 .07640 .07640 .07640 .07640 .07640 .07640 .07640 .07640 .07640 .07640 .07640 .07650 .01700 .07640 .07640 .07650 .01700 .07650 .07460 .07660 .07650 .01170 .07650 .0	55°	_	6011	0	.28720	06500.	08000	.00150	00575.	.01280	.04870	.08140	.08470
-2.44029810 171700120 0.0050 26330 10150 0.4740 0.7060 0.70640 0.0060 26330 0.1250 0.4740 0.70640 0.70640 0.26330 0.1250 0.1250 0.7060 0.7060 0.26330 0.1070 0.4570 0.7060 0.7060 0.25.100 0.00040 0.002500025000240 0.0010 0.2550 0.1170 0.4550 0.7060 0.7060 0.4750 0.7060 0	- 94		Q145	6	. 22630	.00230	. 30080	01100.	0+462.	.01250	04800	.07850	04080.
18250       .10760       .007000       .007000       .007000       .007000 </td <td>5. -</td> <td></td> <td>2961</td> <td>0</td> <td>07171.</td> <td>00120</td> <td>.00210</td> <td>09000.</td> <td>.27520</td> <td>.01250</td> <td>.04740</td> <td>. 07640</td> <td>.07830</td>	5. -		2961	0	07171.	00120	.00210	09000.	.27520	.01250	.04740	. 07640	.07830
2.100 .000% 0.0%200%270000% 26550 .01170 .0%%50 .07060 .07060 .07060 .07270 .0%850 .01170 .0%850 .07270 .0%850 .01280 .0%850 .07270 .0%850 .01280 .0%850 .07270 .000% 25560 .01280 .0%860 .07%30 .07%30 .0%850 .000% 0.00%50 .00%50	2.5°		- 1525	0	.19769	.00030	00040	.00050	.26930	.01200	.04570	.07460	.08100
4,360 .1498002840002.0 0.000000010 .25540 .01230 .04690 .07270 .07270 .00000 .30430 .04690 .0770000000 .00000 .30430 .04690 .07700 .07730 .04690 .07730 .07520	5.50 -		<b>1000</b>	0	.04220	-,00220	0.000	00010	. 26550	.01170	05440.	.07060	.07950
6.690 .304300869002743 .0000000390 .55260 .01230 .04680 .07430 .07430 .01680 .077430 .01680 .077430 .01680 .00750 .017430 .01680 .007430 .017430 .017430 .017430 .017430 .017430 .017430 .017430	5*0.1		1.488	-	.028+0	00.400	01000.	00010	. 25940	.01230	06940	07570.	.07910
00570 . 015290 . 01050 . 00050 . 00050 . 01180 . 01570 . 01740	- S		.30+3	-	. 08690	34C00'-	. 33000	00393	. 25260	.01230	08950	02+70.	.07610
	- 5 -		1529	0	.10720	00000	08000	. 00050	09175	001.0	00410	07240	0.070

DATE 06 OCT 75	ر. قد			TABULA	TABULATED SOUNCE DATA,		MSFC THT 622 (IA125)	IA135)			PAGE	£9
				<b>3</b>	: TWT 622	MSFC THT 622 (1A125) LAUNCH VEHICLE, 77074TS+213	H VEHICLE.	7707-15-213		(R1402!)	MOC 61 1 11	r F
	REFER	REFERENCE DATA								PARAMETRIC DATA	DATA	
1365 1365	2690.0000 SQ. FT		di X	976.0000	1.0000 IN. XT				BETA .	000.02	ORBINC -	000
# #	1290.3000 INCHES		2145	0.007	ž							
		Ş	PEN 10.	20/02	FRV1.	6.71 GA	GRADIENT INTERVAL .	YAL5.00/	2.00			
MACH	APPHA	3		2	Շ	£	දු	CAF	CNBO	CABO	CABS	CABE
1.103	-7.150	·	2	.29660	.00340	. 00130	.00160	. 28350	.01310	.05000	.08260	.08800
1.103	-4.900		8	.23250	.00200	. 00020	. 00130	. 28520	.01280	0.870	. 08080	0440
1.103	15.	30350	9 9	017.	00150	0,000	00100.	.28550	01210.	05830.	. 07820 09750	.08270
103.1	2,120		2 5	0.6660	29200	00100	0.000	27300	01300	02840	00//0	0.08610
1.103	4.380			08080	00630	0.000	00050	06175.	.01290	01630	07370	06070
1.103	6.720		5	07540	00980	. 00200	30170	.26770	.01270	028%0	.07360	.07500
1.103	180	•	Ö	0.11070	00190	.00110	.00030	.27870	.01260	.04820	.07690	.08750
	GRADIENT	. 06508	9	02764	00097	00006	00020	00170	. 00002	.0000	00078	00017
		Ş	PUN NO.	21/0	AN/L.	6.73 GAA	GRADIENT INTERVAL .	IVAL5.00/	5.00			
MCH	AL PHA	3		5	ò	Ç	ਲ	CAF	OBW)	CABO	CABS	CABE
1.146	-7.20	64200	8	.30270	.00590	00160	.00230	.28910	당 장 :	.05100	.08420	0.08940
1.146	-4. <b>85</b> 0		9	.23%70	. 00290	.00060	05100	28600	.01360	.05180	.08320	04780.
9.1.	-2.470	•	2 :	.17120	00100	000200	.00120	29260	.01370	. 05220	07640	.08270
9	2 2	0367	<b>2</b> 9	0.140	00020	00010	02100.	28780	.01360	05180	07810	DE 486
9,1.1	4.430		9	. 02360	00580	04000	00100	06622	01360	08180	07750	0,080
1.146	6.770		2	- 09260	0:000	. 00280	00220	.27380	00110	.05320	.07950	.07580
1.146	150	•	0	0160.	.00150	00190	. 00130	. 29080	. 01350	. 05150	.07740	. 08250
	GRADIENT	.06700	9	03791	00088	00005	000 <del>2</del>	00160	00000	00001	00062	₹6000
		Ş	PER NO.	17/ 0	· 1/2	6.70 GRA	GRADIENT INTERVAL	WAL5.00/	2.00			
MACH	A PA	Š		r,	5	¥.	종	3	<b>2</b>	CABO	CABS	CABE
<u>.</u>	-7.300	60760	3	.26750	01100.	00000	.00210	.28800	.01330	. 05060	.07670	04280
 	006∵₹	•	2	190*0	00200	.00120	. 00150	.28590	.01290	0.6910	. 07390	.08070
	-2.510	·	2	. 12370	0+900∵	.00360	.00120	. <b>2908</b> 0	.01320	.05020	.07060	.05770
Ž.	. 150	•	Ö	06990	00780	. 00450	0,000	.29360	.01320	0.020.	. 07060	.07380
X.	2.140		9	01110	00860	.00360	0,000.	28980	.01320	. 05020	.07030	07550
8	4.460		<b>9</b> 1	- 24.280 - 24.280	0.2:0	.00470	00160	28503	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	05030	. 07100	02170.
<u> </u>	96.7	0569	e s	06200	01350	00000	.00000	04185	00510	04950	06930	02500
<u> </u>	CRADIENT			- 0250.	56000	05000.	00033	0002·	.00003	01000.	00026	00003

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Participa   Part						Ž.	THE	622 (!	A125) LA	, X	EH!CLE.	MSFC THT 622 (1A125) LAUN + VEHICLE, 7707415+213			(R1N021)	NOC 61 ) (	ξ ξ
1.500		REFE	PENCE DAT	٠										ď	RAMETRIC	DATA	
Math Mot.   Mo	. 3762 1966 1967 1967	2650 0000 1290 3000 1290 3000	SO. FT INCHES INCHES	A STATE OF THE STA	• • •	9.6.6 5.00*	1 0000 1 0000 1 1 0000						BETA SPOILR		.000 20.003		
Math			u£	9 3		0 /	Z.			GRADIE	AT :NTER			۰			
	KACH				ರ	I,	Շ		3	_	턵	Š	CVBO		CA80	CABS	CABE
1.00   1.00				280	'n	1550	ě	0660	.0056		04000	33000	010	0	.03950	.05850	. 06520
+59 -2.530 -2.5430 .11210 -0.01350 .00530 .00010 .289130 .01170 .004480 .05570 .05570 .00580 .005800 .005570 .00580 .005800 .0	J. 4.00			780	-:	7620	ő	06/0	.0037		.0000	0,062.		80	.04200	.05640	. 06450
	. +5		•	130	-:	1210	0	1150	. 9053		01000.	.29130		02	08440.	.05570	.05350
				0,0	٥.	3699	0.1	1483	. 2369		.00000	29620	0.0	0	.03860	94650.	. 36280
6.825	5.			1550	O	0430	0.	1720	9,00.		.00120	.29423	0.0	53	.03893	.05500	00100
FEFE FEE FEE FEE FEE FEE FEE FEE FEE	ir.		•	040		0774	Ö	2070	6000		06100	29290	010	Š	.03880	0.05640	. 05930
CRADIENT   C6330  02365  00133   .00590  00228   .00034  00229  00039			•	283	•	0966	ď	2290	11.6.		07400	26×52.	010	50	.03880	.05560	.05553
REFERENCE DATA   RAPIA   CAMBARITA   REFERENCE DATA   RAPIA   CAMBARITA   RAPIA   CAMBARITA	,		•	359	0	5770	0.	1290	.0361		.0000	. 29670	010	0	0.3840	05450	0.58243
### ### ### ### #### #################				330	0.	2365	ö	0133	.0003	-	.00328	.0003€	000	S S	00079	00003	20355
** FEFENCE DATA  ** AB90.000 S0. FT XY98* * 976.0000 IN. XT  ** 1290.3000 INCHES XY98* * 976.0000 IN. XT  ** 1290.3000 INCHES XY98* * 400.0000 IN. ZT  E. *						HS.C	7 147	522 (L	A125) LA	N HOW	HICLE,	7707415+21	<b></b>		(RINDER		χ Έ
# 1290 3000 1MC+ES TYNRP = 976.0000 1N. XT  # 1290 3000 1MC+ES TYNRP =0000 1N. XT  # 1290 3000 1MC+ES TYNRP =0000 1N. XT  # 1290 3000 1MC+ES TYNRP =0000 1N. XT  E		REFE		. ◄										Ā	RAMETRIC	DATA	
HALPHA CN CLM CT CYN CBL CAF CNBO CABO CABS  THE ALPHA CN CLM CT CYN CBL CAF CNBO CABO CABS  THE ALPHA CN CLM CT CYN CBL CAF CNBO CABO CABS  THE CAF CNBO CABO CABS  THE CNBO CABO CABO CABO CABS  THE CNBO CABO CABO CABS  THE CNBO CABO CABO CABO CABO CABO CABO CABO CA	SACF - SACF - SCALE -	2690.0000 1290.3000 1290.3000	SO. FT INCHES INCHES	7 1 4 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	• • •	9.6.0 9.	10000						BETA SPOILR		. 000		.00
ALPHA         CN         CTM         CTM         CRM         CAF         CAF         CABO         CABO<				9 3		°	Ž.			GRADIEN	47 INTER			0			
-6 910        62450         .01110        00590         .00900         .03430         .06180           -4,720        50120         .24660         .00930        00600         .00370         .1540         .00910         .03470         .05780           -2 490        36480         .00190        00300         .00220         .15380         .00820         .05590         .00500         .05590         .05650          240        240        34480         .00120        00350         .00220         .15380         .03140         .05920         .05920         .05920         .05920         .05920         .05920         .05920         .05920         .05920         .05920         .05920         .05920         .06070         .14560         .06070         .03190         .05220         .06070         .1920         .05220         .06070         .1920         .05220         .06070         .1920         .05220         .06070         .1920         .05220         .06070         .1920         .05220         .06070         .1920         .05220         .06070         .06070         .1920         .06070         .1920         .06070         .06070         .06070         .06070         .06070         .1940         .	MACH		Š		ō	r	ל		Cyn		ă	<b>7</b>			CABO	CABS	CABE
-2 490 -38480 19380 00190 -00350 00260 15380 00960 03340 05050 -25490 -2 490 13470 05050 -00500 -2 490 -38480 109380 00190 -00350 00190 00180 00	7			200	'n	0696	6	01:1	- 0059		01.50	14890	600	8	.03430	.06180	.07800
-240 -36480 .19380 .0019000300 .00260 .15380 .00860 .03290 .06550 .0550 15340 .0019000350 .00350 .00220 .19520 .00820 .03140 .05920 .05920 10170 10170001100011000120 .00160 14260 15190 .03260 15100 15100 10450 10170 11920 10850 14260 15100 14460 14260	Ę,			1.20	νi	₩99	ō	0860	0068	•	.00370	0776	600	0	.03470	.05780	.07380
28023470 .14330 .0012000350 .00220 .19520 .00820 .03140 .05920 .05920 .19580 .00840 .03140 .05920 .05920 .191010790 .101500011000120 .00160 .19080 .00840 .03190 .05920 .05920 .07170 .02490 .0525001620 .00060 .00120 .14260 .00850 .03260 .06070 .05200 .0090001450 .00170 .00050 .11920 .00850 .03230 .06260 .0597029760 .0014400070000700 .00180 .03180 .03180 .05970	<b>8</b> .			.¥80	-	9380	ē.	0610	0030	·	.00260	. 15380	<b>900</b>	60	.03290	. 05050	.07350
1.91010790 .101500011000220 .00160 .15080 .00240 .03190 .05920 .05920 .0.2490 .0.2490 .0.0500 .0.00060 .0.0120 .14260 .0.02490 .0.02490 .0.0030001450 .0.0060 .0.0120 .0.0240 .0.0250 .0.0	<u>\$</u>			270	-	4330	õ	5150	0035	·	.00250	15520	800.	20	.03140	. 05920	.07120
4.170 .02490 .0355001020 .00060 .00120 .14260 .00250 .03260 .06070 .06070 .01320 .002490 .002490 .002490 .00240 .00240 .00250 .03230 .06260 .00240 .11920 .00250 .03230 .05200 .05200 .02230 .02230 .02230 .02230 .02970	<b>P</b> .			96	-:	0150	5	0110	-, 0022		.00160	15080	<b>800</b> .	ç	.03190	. 05920	.07160
6 380 .16100 .00900014F0 .00170 .00050 .11920 .00850 .03230 .0626029023760 .014400007006260 .00180 .05370 .03380 .03380 .05970	<u>F.</u>			96	Ö	5950	0	1020	9000		02100	. 14260	900	20	.03260	.06970	.07260
05970 - 19460 - 100070 - 105900 19460 100830 103180 105970 - 105970 103180 103180 103970	Ę,			1 00	0	0060	0,1	1450	7100.		.00060	. 11920	<b>6</b> 00.	23	.03230	. 06260	. 08460
	<u>\$</u>			1760	-	0444	ŏ	0000	0026		00183	3460	.008	GE.	.03180	05970	.07160

DATE 06 OCT 75	8C1 73			TABLE	TABLEATED SOURCE DATA,		HEFC THT 622 (IAIRS)	¥ 33			PAGE	e C
				25	THT 622 (	MSFC THT 622 (1A125) LAUNCH VEHICLE, 77074TS+213	H VEHICLE.	1707475-213		(RINDEE)	2T MJ 81 ) (	ė.
	REFERE	MENCE DATA	_							PARAMETRIC DATA	DATA	
386	2690.0000 SQ. FT	50. FT		9.948.6	976.0000 1N. XT				5 7 4 . SPOILR .	000.	ORBINC .	. 300
SCALE .	1290.3000	INCHES	<b>Q</b>	. <del>1</del> 00.0								
		Æ	EN NO.	9	- 1/18	6.39 ORA	GRADIENT INTERVAL .	VAL5.00/	5.00			
₩ K	APPA	8		ğ	5	Ě	륁	3	<b>08</b> 0	CABO	CABS	CABE
.906		,	•70	. 30200	.00380	00110	07100.	. 16980	06600.	03560	.05830	.08250
206.		•	8	.23850	.00150	30190	. 00030	. 19030	.00950	.03620	.06160	.09020
-305	-2.530	0.940	0	. 18370	00120	00070	00030	0×7:	.00930	0.035	. 06460	.07990
206			170	. 13520	00160	00240	00040	. 17120	. 000.	.03310	.06630	07870.
<b>206</b> .		•	050	.07800	01180	. 00350	06000 -	. 17000	. 00870	03330	.06610	07810
<b>206</b> .		•	970	. 02130	01480	.00620	00060	16290	00800	02450	.05760	2000
206		•	20660	02700	02150	.00850	00170	. 15160	. 00860	0.000	07070	OLCEO.
8.		·	370	13010	00730	0,000.	00110	010011	09600	03550	00000	06050
	GRADIEN		90090	. 02430	-, 00193	16000	000	. 00 <b></b>	0000 -	- 2000	00000	0006
		£	35 x 36.	37, 0	RN/L .	6.61 CAM	GRADIENT INTERVAL .	VAL5.00/	90.6 /00			
ğ	*	3		Š	Շ	2.5	ජ	3	0 <b>9</b> 45	CABO	CABS	CABE
8		•	80	. 32150	.01160	00370	.00200	25140	0.00.	03820	0₹₹80.	. 00530
86		•	250	.26200	.01000	0.003.0	. 00170	.25360	.01020	03830	.07890	. 08230
8	5 -2.490	0 35230	233	05705.	.00580	00190	. 00120	.25270	. 00950	. 03630	.07650	.07860
8			٠ ١	14960	.09230	00200	00000	055×5.	.00930	. 03550	07280	07870.
8	3.010	0.470 0	Š	06260	00050	. 00010	0,000.	2310	.01100	06 T & .	.07730	.08683
86.	3.260		.07830	01710.	00720	.00330	. 00030	.22880	.01080	9.120	03/10.	06290
<b>566</b> :	6.590	į	23590	02130	01010	. 00260	0.000	.22750	.01160	02440	.08060	.08760
8	. 250	1	2,920	.15030	.00340	00240	.00060	.24280	.00950	03610	.07630	07950
	GRADIENT		.06305	02670	00180	.00058	00016	00262	- 00012	.000.	00010	99000
		Œ	PEN NO.	36/ 0	FBK/L .	6.70 GRA	GRADIENT INTERVAL	VAL5.00/	90. 2.00			
Ž	48.4	5		ğ	ò	Š	ණ	CAF	090	CABO	CABS	CABE
6		'	Ş	32500	.00860	00159	00170	.28620	.012v0	.04720	.06370	0.000
1.80		•	20	.26530	.00700	00130	.00120	.29020	.01200	0600	. 08080	.06180
1.93			8	.21220	.00330	. 00000	. 00060	0+6 <del>02</del> .	.01180	0000	.07920	.07980
1.67	7 220	1021750	85	. 15630	.00200	00110	. 00020	. 28060	.01150	200.4	.07830	.08363
1.007		·	2	01860.	00100	. 00060	02000	.26840	.01210	.04600	07770.	.08680
1.94			.09620	.01483	00€+0	.0250	00010	. <b>26</b> 790	.01200	04580	.07660	. 08290
1.97			910	- 04260	00760	.00:50	00050	. 25530	.01220	04940	07870	08:80
1.047		٠	0:6	.15770	. 00300	00150	0-000	.27580	.01180	06373	0960	040 040
	CRADIENT	7. 06432	125	C1120	00136	.00037	000 . 3	DD287	10000	*0000·	00042	07000

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DATE 06 OCT 75	ž,		TABL	TABLEATED SOURCE DATA.		HSFC TWT 822 (1A125)	41.25)			PAGE	98
			¥	C THT 622 19	MSFC THT 622 (IAI25) LAUNCH VEHICLE, 77074TS+213	H VEHICLE.	1107475-213		(R1N022)	MT 61 ) (2	- g
	REFERENCI	NCE DATA							PARAMETRIC	DATA	
SCALE	2690.0000 SQ. 1290.3000 INCI 1290.3000 INCI	SO. FT XMBP INCHES YMPP INCHES ZMPP	0000.37Q • 0000. 0000.	.0000 IN. XT .0000 IN. YT				BETA • SPO:LR •	000.04	0481NC •	000.
		PUN NO.	33/ 0	PRVL .	6.73 GPA	GRADIENT INTERVAL .	WAL5.00/	5.00			
MACH	AFF.	દ	ş	Շ	ξ	<b>8</b> 5	CAF	CNBO	CABO	CABS	CABE
1 100		651+0	3240	05400.	0 <b>62</b> 30.	08100.	. 30510	01170	.04470	077740	.08330
1.100		· +8960	. 26230	08+00	. 20135	. 20160	C9/05	05110.	0.00 m	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	046/0.
001.1	- 4. 480	33920	20409	.00370	enege.	00000	30650		טאַפּאָט. באַמּאַט.	50470.	0.000
201.1	0.00			00000	0 W C C	1000	03/63	200	ממלים.	05950	08800
90.		2960.	56660 56660 56660	00000			18764.	03116.	01770	27170.	.07860
2 5	· u	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	06360	02110.4		C1	07085	01130	.04300	03079.	090.0
	, ,	0636: -	0 00	04:00:-	C3800'	. 30063	C:862.	01110	いずんずい	03:70.	.08280
•	GRACIEN*	61593	3279.	00155	+9000.	00028	33272	. 30033	5:000.	00037	01000
			C / >M	Ž	6.79 SRA	SPADIENT INTERVAL	WAL5.00/	5.00			
HOAM	A-19	ð	1 0	Ն	SAN CAN	ĝi O	CAF	CBND	CABO	CA95	CABE
181.1	-1 260	63413	329:0	.01120	-, 20619	062007	0.30640	.01295	0.04920	04963	30860.
151	60 1		26350	35753.	0530C	56.50	.30300	. 31290	02640.	.08200	08810
1.151	- 2.490		19920	. 30590	- 00260	00000	30690	.01323	. 05010	. 08263	0:480.
- 151	163	18050	. 13690	00280	00:20	30:93	30140	0.819.	.05110	0::60.	.08590
1.151	.3.120	0~5°3′-	08750.	09000.	08:00	E) C) C) C)	.29360	.01330	. 05060	07950	. 08530
1.151	4.+30	12750	01100	C+200:-	280CC '-	4.00.10	0.17.5	. 91330	.05070	26840.	.09060
- 15	6 760	089LZ.	05730	00550	.02120	COSEO	. 28203	.0:353	05160	31 183.	30775.
<u>.</u>	C .	0226. I	. : 3860	. 33290 19160	00350	n :	. 30589	.01330	טכטכט.	00/200	59055 r
	3		3030			- INDESCRIPTION OF THE PROPERTY OF THE PROPERT	/00 s- • • • • • • • • • • • • • • • • • •	•			
MACH	AL PHA	3	נר	۲	Ç	<b>6</b>	CAF	0 <b>9</b> 0	CA80	CABS	CABE
1.252	-7.280	63010	. 29220	. 90270	00030	07600.	30770	.01290	.04930	0.920	06,490.
- 255	C88 *-	43790	.21200	05300	.00083	. 00200	30090	.01260	.04 790	. 07640	.08270
- X	06 + ₹-	27030	14430	00420	06200.	0:100	. 30120	.01310	06640	. 07.30	07970.
1.252	130	-, 11640	. 08620	00800	06200.	. 00039	. 30240	.01310	06670.	. 07230	.07500
	2.150	.02750	.02750	00910	.00380	00050	29340	.01330	. 05060	.07230	. 07720
 80:-	4 473	. 165:0	029c0	61070	.00320	03120	0:682.	.01370	. 05230	00160.	.07580
<u>.</u>	6.800	.3:009	- 08330	01360	01400	60220	28480	.01420	. 05390	07500	.07380
¥0 -	130	11776	.08700	- 00759	. 25393	01000.	. 30320	01310	08640.	.07250	0.000
	ORADIENT	. 06445	02566	00105	. 00025	00034	₹ 100 ° -	01000	9000	, 2000s.	000 /0

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DATE 06 OCT	ς ε		TABUL	TABULATED SOURCE DATA.		MSFC TWT 622 (1A125)	A125)			PAGE	69
			FS.	C TWT 622 (1	MSTC THT 622 (18125) LAUNCH VEHICLE, 77074TS+213	H VEHICLE.	7707415-213		(R1N022)	NOC 61 ) (9	. 10 ×
	PEFERENC	ENCE DATA							PARAMETRIC DATA	DATA	
SAEF = BAEF = SYALE =	2690.0000 SQ. 1290.3000 INC 1290.3000 INC	SO. FT XHRP INCHES YHRP INCHES ZHRP	• • •	976.0000 IN. XT. .0000 IN. YT .000.0000 IN. ZT			- 0	SPOILR .	.000	ORB INC	000.
		PUN 40.	. 40	RN/L .	6.52 CRA(	GRADIENT INTERVAL .	WAL5.00/	5.00			
MACH	ALPAK	3	CLM	Շ	C AN	퓽	CAF	0 <b>0</b>	CABO	CABS	CABE
1.460	-7.330	09/65- 0	.25060	01050	.0076⊍	.00080	.31149	06600.	.03790	.05670	. 06580
1.450	-4.930	·	. 18840	01010	.00660	0.000.	. 30860	06600.	.03770	.05330	.06390
1.460	-2.520	0.25370	. 12500	01280	.00780	. 00030	. 30550	01010.	. 03850	.05340	.06390
1.460	152		.06790	01510	.00830	00060	.303+0	.01020	. 03900	.05380	. 06290
1.460	2.183	095∗0.	.01430	01810	00600.	20100	.30160	.01030	.03920	. 05390	. 05050
1.460	4.450	0.17670	03850	0:870	00600.	00140	.30120	01010.	.03850	. 35450	.05700
1.460	6.810	06918. 0	08980	02240	.01170	00200	. 29910	.01030	03910	. 05520	. 25530
1.460	170	00201 0	.05720	01360	01800.	. 00000	.30430	01010.	.03840	. 05290	.06210
	GRADIENT		02407	00096	.00026	00023	00080	.00003	.00010	S1000.	00073
			ž.	C THT 622 (	MSFC TWT 622 (1A125) LAUNCH VEHICLE, 7707415+213	H VEHICLE,	7707415+213		(R1N023)	3) ( 19 JUN 75	ر الا
	REFERENC	PENCE DATA							PARAHETRIC DATA	DATA	
• 58EF	2690.0000 50.	t	•	976.0000 IN. XT					000	ORBINC .	000.
LREF .	1 <b>290</b> .3000 1 <b>29</b> 0.3000	INCHES YMPRE		.0000 IN. YT			-	SPOILR •	20.000 20.000		
SCALE .	. 00+0										
		RUN NO.	. 27, 0	RRVL .	6.01 GRA	GRADIENT INTERVAL .	TVAL5.00/	2.00			
HACH	BE TA	8	มี	Շ	£	<b>5</b>	CAF	CNBO	CABO	CABS	CABE
795	-6.440	013970	. 06390	. 28360	12710	.04320	. 12210	.01070	06040	.06930	01620.
795	1.320		.07220	18910	08460	. 02840	. 12630	0,010.	.03050	.06+30	.07830
795	-2.190	0 15890	.08030	.10210	04470	.01480	.13170	06500		.00190	.07510
795	100	•	.08720	.01880	00920	.00430	.13610	0,600.	05550	05850.	06170.
795	2.000	-	0.08640	06070	. 02530	00630	14520	01600.	.03470	.05350	.05830
, 18	4.100		. 08550	14390	.06350	0.01940	. 14030	05600	.03770	. 05280	07470.
28	6.200		. 08080	23210	. 10550	03300	. 13860	.01020	03830	03500	02:20
8	100		.08870	02020	08600	03300.	0.13670		0/050.	0.0000	5/1/0.
	ORAD I EVT	00232	. 00155	1+650	14/10:	00000	A 100.				)

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.0000 IN. XT .0000 IN. YT .C000 IN. ZT RN/L -			PARAMETRIC DATA	C DATA	
76.0000 IN. XT 00.0000 IN. ZT 00.0000 IN. ZT CY CY					
O RN/L = CY		ALPHA SPOILR		0481NC -	000.
ğ	6.36 GRADIENT INTERVAL .	-5.00/	5.00		
ģ	CYN	CAF	CABO CABO	CABS	CABE
	96	.15250 .0		06170.	. 08330
	09110 .03250	_		•	.08:90
06801. 0880	•		07040. 07010.	·	.080.
					.07530
1	1				.07589
٠					. 07790
•	.:12+003850				.08270
077:0. 03970	0:200 0:500'-	0. 0753:	.01020 .03872	. 56430	.07683
16140'- 22100	72300 81910.	'	•	90159	00059
247 3 RN/L = 6	6.57 SHADIENT INTE		00		
Y2 #12	CYN	CAF	30 CABO	CABS	CABE
122 -,04191 7 3 RN/L = CY	6 Z	10 Z	. 00142 - ERVAL = -5.00/	5.00 5.00 5.00	5.00 CABO CABO

.07970 .07400 .07160 .07300 .07640 .07690 .07290 CABE .08240 .07270 .07420 .07740 .073810 .07980 .07680 .06670 .05660 .05000 .05380 .05380 CABS .08400 .0740 .07740 .07350 .06870 .06420 .06210 CABO .04700 .04380 .04380 .04380 .0450 .04550 .03700 .03540 .03550 .03560 .03470 .03960 .03640 01090 00030 00030 00091 00091 01040 01040 01040 00000 CN80 .01230 .01210 .01150 .01150 .01170 .25460 .25460 .27160 .27400 .27540 .2759 .2750 .2750 23330 23330 23330 24140 23230 25230 237330 0675 GRADIENT : NTERVAL 04930 03300 01769 00850 0-24820 01870 01870 01870 CBL ...05210 ...05210 ...0250 ...0250 ...0250 ...0250 ...0260 ...0260 ...0260 ...0220 CYN - . 3570 - . 09350 - . 09410 - . 04140 - . 08380 - . 08460 - . 08460 0.13470 -.09093 -.04030 -.08460 -.08460 -.08460 -.08460 -.09460 -.00330 . 1958 . 104°C . 104°C . 01030 . - 08210 . - 25970 . - 65970 . - 64310 .29800 .2050 .10670 .01270 -.08110 -.17030 -.25960 .01320 CLM .07380 .08570 .09710 .10690 .10690 .10533 .09860 05520 07230 08350 08950 08950 08730 08730 -11500 -12500 -114590 -114590 -114510 -114310 -114310 -114310 - 11570 - 13910 - 15243 - 15200 - 15150 - 15150 - 15150 - 15150 3 -6.530 -2.230 - 100 2.020 - 100 6.300 - 100 - 100 BETA -6.550 -4.410 -2.240 -1.100 2.020 4.160 6.330 GRADIENT 999 999 999 999 999 999 999 1,049 1,049 1,049 1,049 1,049 1,049 1,049

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DATE 06 OC! 75	25 E			TABULA	TABULATED SOURCE DATA,		MSFC THT 622 (1A125)	133			PAGE	69
				#SFC	THT 622 (1	AIZSI LAUM	MSFC THT 622 (1A125) LAUNCH VEHICLE, 77074TS+213	17074754213		(RIN023)	3) ( 19 JAN 75	. 25.
	REFER	REFERENCE DATA							_	PARAMETRIC DATA	DATA	
Seer - Se	2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES	SQ. FT INCHES INCHES		976.01	976.0000 IN. XT .0000 IN. YT .CO.000C IN. ZT				ALPHA - SPOILR -	.000	ORBINC -	000
		Æ	PUN NO.	22/ 0	RN/L .	6.70 GR/	GRADIENT INTERVAL5.00/	AL5.00	00.8.00			
HACH	BETA	3		5	Շ	ž	뼔	SAS.	OBNO	C <b>48</b> 0	CABS	CABE
1.105	-6.623	11210	210	.07280	.31070	1 3920	0.05540	.27010	.01330	.05070	. 08620	.08930
 26	-4.450	12080	980	. 08290	.21260	09830	.03820	. <del>2</del> 7*00	.01300	.04960	. 08560	. 08600
1.105	-2.260		010	. 09250	.11760	05650	.02120	. 28210	.01250	.04750	.08180	.08150
1.105	110	14180	180	.10130	. 02340	0:170	.00470	. 28270	.01230	.04690	. 07930	. 08270
1.105	2.030	14480	<b>•</b> 80	19410	07210	. 03330	01149	. 28270	.01270	.04830	.07480	. 08530
1.105	4.180	13890	330	.09780	16050	.07*00	02770	.28780	.01270	04840	. 07090	. 08360
1.105	6.350	13410	5	.09120	+.25280	. 11340	34430	. 29590	.01300	.04970	. 06800	. 08700
. 105	100	13720	720	.09760	. 02130	01090	.00470	. 28230	.01200	. 04583	.07810	. 08333
	GRADIENT	00237	537	.00192	04343	. 02015	00763	12100.	0000-	-, <b>0</b> 0008	00169	00000
		ĕ	PCN NO.	3, 0	PN/L .	6.77 GRJ	GRADIENT INTERVAL5.00/	7AL5.0(	0/ 5.00			
MACH	BETA	3		S.	Շ	CYN	85	CAF	CVB0	CABO	CABS	CABE
1.249	-6.700	08570	570	.04550	.30310	12860	.05290	.28340	.01230	00440.	.07450	0.640.
1.249	064.4-	08720	720	. 05220	. 19750	08350	. 03550	.28493	.01210	00940.	.07260	.07540
- 24g	-2.280	09190	190	.05800	09660.	0.040	.01800	. 28890	.01220	. 04650	06970	.06930
1.249	110	09760	991	.06390	.00880	00140	. 90293	. 29340	.01200	.04550	. 06610	.058*0
2. 249	2.061	09680	980	. 06550	08070	دري ۵۰.	01250	. 29660	.01200	04580	. 06320	.07:70
1.249	4.230	10430	•30	.06710	16860	.07460	02850	.29670	03/10.	.04730	.06150	.07620
1.249	6.440	10960	960	.06660	26340	.11190	04460	. 29570	.01260	0.840.	. 06150	.07790
1.249	110	-, 09630	530	.06140	0.00840	00120	. 00320	. 29340	.01150	.04370	. 06+30	.06650
	ORAD I ENT	00189	68	17100.	04189	.01809	00728	.001	. 00002	60000.	00132	.00018

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PARAMETRIC DATA . 000 • 000 0 ALPHA SPOILR 2 THT B22 (1A125) LAUNCH VEHICLE, 7707454213 975.0000 1N. .0000 1N. REFERENCE DATA 2690.3000 1NCHES 1290.3000 1NCHES 1290.3000 INCHES .00%0

SPEF LREF SCALE

.08340 .08100 .07830 .07830 .07220 .07420 .07420 CABE .08860 .09340 .07930 .07590 .07910 .07792 .06830 .06830 .06330 .05330 .05740 .05510 .05520 CABO .04130 .03900 .03670 .03470 .03470 .03430 CABO .04500 .04080 .03770 .03550 .03760 .03760 .03960 .01080 .01080 .00960 .00980 .00980 .00970 .01180 .01180 .01070 .00990 .00990 .00990 GRADIENT INTERVAL - -5.007 5.00 13780 114350 114350 115820 115820 115820 115300 .15910 .15910 .16580 .16933 .17690 .17970 .17790 .06230 .02790 .02790 .01450 .00440 ..0360 ..01850 ..03190 ..03190 CBL.
.04490
.03033
.01600
.0330
-.00990
-.02300
-.02300
-.00300 CYN - 12640 - 08440 - 01110 - 01110 - 06100 - 01119 - 01119 - 01119 CYN - 12590 - 08893 - 05120 - 01180 06560 - 10760 - 01160 01460. 10150. 02210. 02210. - 14210. - 22850. - 22800. .1740 .13510 .14060 .13570 28,0 CLH 11:309 12:2060 12:420 13:33 13:3 3 CN . . . 20410 - . 20410 - . 20480 - . 20380 - . 203140 - . 20440 - . 20470 - . 20470 CN -.18590 -.19820 -.20320 -.21270 -.21280 -.21780 -.21780 9ETA -6.450 -7.350 -7.190 -7.100 -7.1 .802 .802 .802 .802 .802 .802 .802 #5# 898 898 898 898 898 898 898

CABE 18650 .08350 .07930 .08290 .08230 .08120 .074'0 .074'0 .06900 .06600 .06600 .06260 .06000 CABS .08460 .08260 .07880 .07490 .07050 .06690 .06510 .06510 CABO .04920 .04590 .04590 .04550 .04670 .04600 CNBO .01290 .01220 .01220 .01220 .01220 .01230 .01230 .01230 .01230 .01230 .01230 .0000 26980 27680 28650 286740 29900 29560 29300 28580 . 04990 . 03270 . 01730 . 00210 - 01240 - 02750 - 04210 . 00210 - 12790 - 08570 - 04660 - 00340 - 03940 - 07960 - 1780 - 01954 . 29160 . 19510 . 10390 . 01160 . 01160 . 16590 . 25770 . 0160 .19729 .10990 .02080 -.06839 -.15250 -.24220 .29220 CLM 11210 172870 172870 15260 15260 15340 15340 15340 31/ 0 . 16060 - 17770 - 19210 - 20643 - 20580 - 19970 - 19540 - 19540 -4.360 -2.230 -.090 2.020 4.150 6.270 ..090 BETA -6.600 -2.256 -7.100 -7.100 -7.150 6.340 -7.100 1.049 1.049 1.049 1.049 1.049 1.049 1.049

DATE 06 OCT 75	χτ 7X		TABUL	TABULATED SOURCE DATA.		MSFC TWT 622 (1A125)	33			PAGE	1,7
			NSF(	1 THT 622 (	NSFC THT 622 (18125) LAUNCH VEH!CLE, 77074TS+213	H VEHICLE.	7707415-213		(RINGE)	27 NU. 81 ) (1	š.
	REFEREN	NCE DATA							PARAMETRIC DATA	DATA	
SCALE .	2690.0000 52 1290.3000 11 1290.3000 11	SO. FT XMRP INCHES YMRP INCHES ZMRP	976.0000 .0000 .0000	976.0000 IN. XT .C000 IN. YT 400.0000 IN. ZT				SPOILR =	.000	ORB INC .	000.
		PCN NO.	32/0	PN/L .	6.72 GRA	GRADIENT INTERVAL -	VAL5.00/	2.00			
MACH	BE 1.A	ઠ	r,	۲	CVN	<b>1</b> 6	CAF	OBAC	CABO	CABS	CABE
1.103	-6.640	14160	06660.	. 29650	12790	.05180	. 28180	06110.	04040.	.07760	.08080
1.103	-4.450	15950	. 11800	.20020	08780	.03480	. 28870	.01210.	0.04610	.07760	.08100
1.103	-2.270	16920	. 12800	. 10940	04820	.01853	. 29920	.01150	.04390	.07570	.07700
1.103	110	18270	. 13790	.01780	06710	.03380	.30080	.01130	.04320	.07000	07770.
1.103	2.010	18660	. 14130	07190	.03330	01080	. 30460	0+110.	04840	.06480	. 08050
1.103	4.160	18720	. 14180	15930	.07340	02663	30890	.01150	.04390	.06140	.07983
1.103	6.360	18170	.13360	25120	11:80	- 04230	.30670	.01200	.04560	.05950	. 08260
1.103	110	18:73	.13770	0.840	03720	. 00340	.30120	.0:140	.04330	06690.	.07740
	GRADIENT	00339	,0028⁴	04183	97810.	-,0000-	. 902! 3	00005	00023	00187	.00005
		₽₽ ₽₽	30/0	PN/L	6.78 GRA	GRADIENT INTERVAL -	YAL = -5.00/	5.00			
HACH	BE 7.A	3	r T	ò	Z.	8	CAF	CMBO	CA80	CABS	CABE
- 285	-6.690	11060	.07050	30370	12710	.05300	. 28760	.01390	.05280	.07800	.08780
1.252	14.480	11400	.07780	07761.	08170	.03570	. 28650	.01360	.05170	.07700	.08650
1.252	-2.290	11410	. CB100	. 10050	04000	.01840	.29620	.01340	.05090	07440	.07600
1.252	110	12100	0.8840	01320	00360	. 00320	. 29620	.01330	. 05060	.07160	.07560
1.252	2.050	12300	07060	07590	03470	01230	. 29960	. 01360	.05180	. 06930	.07980
1.252	8. P	12820	04680	16290	. 06960	02830	30090	.01360	.05200	. 06580	.07970
1.252	6.440	13350	06680.	25750	.10730	04460	. 30250	.01380	. 05250	.06630	. 08250
1.252	110	12160	.08700	.01230	00353	.00310	. 29780	.01280	.04860	.07050	.0720
	GRADIENT	00171	.00151	04121	.01732	00729	9~100.	10000	.0000	00117	00045

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	REFERENC	ENCE DATA						_	PARAMETRIC DATA	SATA	
SAEF . LREF . BAREF . SCALE .	2690,0000 50. 1290,3000 1NC 1290,3000 1NC	SO, FT XMRP INCHES YMPP INCHES ZMRP	978	77 .NI 0000 .N. XT .0000 .N. XT .NI 0000 .000 .000 .000 .000 .000 .000				BETA - SPOILR -	999. COC.	0491NC +	.000
		PCN NO	0. 1/1	RN/L .	5.97 GRA	GRADIENT INTERVAL	VAL5.00/	97 5.00			
MACH	AL PHA	ક	5	Շ	Z.	<b>8</b>	SA5	CMBO	CABO	CABS	CABE
		51730	. 20650	04100.	00000	06100.	. 12350	01010.	0.03870	.05950	.07560
.800	14.700	30470	1+960	02500.	00210	. 00220	. 13300	0.0040	.03280	04950	. 06930
.000	-2.463		. 09860	50290	.00:20	.00:60	. 13470	. 20920	.03520	.05630	.06730
.800	2E0	11900	06170.	00010	C6000'-	.00190	. 13260	00600.	03440	.056:0	.06700
	1.960	07810.	.00380	00580	06100	úL100.	. 12870		02420.	.05580	.06700
.800	1 4 200	369~;∵	25.03770	0: <b>2</b> 5	.00380	. 30129	. 12170	CLEDO.	.03453	.05630	.06740
.B30		. 28400	08733	3:34C	. 20279	.00150	1:460	. 00880	.03350	.05850	. 06550
. 800	250	11500	04550	0.00470	00:00	02.00	3716.	0:600.	36480.	.05610	. 06890
	ŝ		02: 12		.00056	60000	00:29	+00000 -	90016	00003	00018
i	á		1		3	d	940	ş	Ğ	8	2
ב ל ב			ָרָרָי ניי	9		900	0000.	00.0	200	0000	0.000
206		•	06115.		0000	01900.	0000	0000	20.	המתקרי	. מינים
000	0:7.4	0.30480	DD**		) C	C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00		00 C C C C C C C C C C C C C C C C C C		01870
ָר מַנ		•	05510	200.0		0.100	15380	03010	03830	0.5540	.07800
			19050	00000	00110	0.800	14860	00800	.03620	. 05530	.07260
206			-,08569	06720	.01252	00450	. 14870	2000.	.03620	.05760	07170.
206		•	-, 11293	22550	.01250	00430	. 13880	09600.	.03560	.06310	01510.
- 205		•	.01560	21980	.01070	00290	. 15759	. 20980	.03730	. 05483	.07630
	GRAUIENT	. 06205	02597	10180	.93615	00027	00120	1:000:-	30052	81900.	00083
		PUN NO.	, ;	PON'L .	5.28 GRA	GRADIENT INTERVAL -	VAL = -5.00/	20.8 /0			
MACH	ALPHA	3	ş	Շ	NA.	Ą	CAF	CMB0	CABO	CABS	CABE
8		55010	£150	. 30550	00030	. 00020	.22010	.01150	00440.	.06200	.08590
8		•	. 19660	. 30250	. 00110	.00070	. 23200	.01130	.04290	06890.	.08100
86		•	. 12660	30040	.00140	0,000.	. 23280	01010.	04070	.05630	.07800
.98	3210	11410	.06350	00010	.00000	. 00050	.22920	.01050	06040.	.05340	.07920
	₹.067	05040.	00070	0+600	04100.	06000.	. 22900	06010.	.04160	. 05560	. 08240
66.			07050	03750	.00310	00030	.22070	0.010.	00 I +D .	.08790	. 08020
8			12380	01070	.00300	00180	.21090	.01060	.04030	.06970	. 08000
8		•	05+90	000%0	.00000	. 00070	.22500	06600.	.03740	. 06020	.07530

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TABULATED SOURCE DATA, MSFC THT 622 (TA125)

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(R1N025) MSFC THT 622 (TAI25) LAUNCH VEHICLE, 7707415-213

ONE INC PARAMETRIC DATA 80.00 SPOILR : REFERENCE DATA 2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES .00% SCALE SCALE

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CABE .08060 07780 .07880 .08130 .07520 .07520 .07650 .07630 .07770 .07770 .07070 .07680 CABS .07710 .07520 .07310 .07210 .07270 .07210 .07350 .07350 .07280 .06920 .06370 .06410 .06580 CABO .04680 .04680 .04710 .04680 .04680 .04680 CABO .0450 .0450 .04320 .04320 .04320 .04350 .04350 .01170 .01170 .01170 .01170 .01170 .01170 CNBO .01230 .01240 .01240 .01280 .01280 .01280 .01280 CAF .26210 .26220 .25530 .25550 .25930 .25930 .25680 .25680 CAF -27900 -27600 -27380 -27380 -27330 -27330 -26800 -27730 GRADIENT INTERVAL GRADIENT INTERVAL CBL . 00100 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 CBL . 00120 . 00090 . . 00020 . . 00020 . . 00020 . . 00020 . . 00020 CYN . 00190 . 00240 . 00080 . 00080 . 00240 . 00240 . 00240 . 00300 .00300 .00350 .00350 .00350 .00350 .00470 .00480 . 00330 . 00090 . 00090 . 00090 . 00090 . 00100 . 00100 . 00369 . 00369 . 00350 . 00350 . 00310 . 00390 . 00300 . 1/K 5,0 6, 0 .26190 .13870 .07990 .07990 .01660 -.04680 ₹ 8 **3 3 5** CN - 57480 - 1540 - 1540 - 15630 - 12630 - 17060 - 170 CN - . 56850 - . 40390 - . 11430 - . 11430 . 18490 - . 11289 . 06427 ALPHA -7.120 -4.810 -2.470 -1.190 2.190 6.700 6.700 6.700 GRADIENT ALPHA -7.070 -7.070 -2.430 -1.170 2.100 4.370 6.690 -1.180 GAADIENT #KCH

CABE .08530 .08100 .07360 .07780 .0780 .05800 .00410 .00410 .07820 .07610 .07450 .07700 .07660 CA80 .05110 .05020 .05040 .05040 .05180 .05180 CNBO .01340 .01324 .01320 .01320 .01330 .01330 CAF -27380 -27380 -28400 -28400 -27810 -27510 -27350 -28250 -20030 GRADIENT INTERVAL CBL . 00160 . 00080 . 00050 . 00060 - 00000 - 00070 - 00070 CYN - .00260 - .00340 - .00340 - .00380 - .00310 - .0090 - .00120 - .00120 . 00460 . 00460 . 00150 . 00150 . 00570 . 00620 . 00940 W/L • CLH .27750 .21310 .15100 .02780 .02780 .03770 .08710 .08710 .08710 .08710 .08710 .08710 .08683 7, 5 CN -.62020 -.28550 -.12910 .01850 .16930 .31530 -.12490 ALPHA -7.250 -4.890 -2.510 -160 2.137 4.430 6.770 -160 GRADIENT 1.160 1.160 1.160 1.160 1.160

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+V 30¥d	18 NO 61 1 18 NO 75 1
TABULATED SOURCE DATA, MSFC TWT 622 (1A125)	HSFC THY 622 (TA125) LAJACH VEHICLE, 7707475+213
DATE 06 OCT 75	

SOEF . LREF . BREF .	2690.0000 SG. 1290.3600 INC 1290.3000 INC	្ត <b>ម៉ូ</b> ស្ត	• • •	976.0000 IN. XT. .0000 IN. YT V00.0000 IN. ZI			<u>.</u>	BETA .	996·	0-81NC •	ე00 .
		RUN NO.	NG. 3/0	• PN/L •	6.44.88	ADIENT INTER	GRADIENT INTERVAL5.00/	9.00			
MACH	A! PHA	ક	S.	5	Ç	턵	CAF	800	CABO	CABS	CABE
9.5			057 <b>-%</b> .	000100	.00120	06000.	.27860	.01310	.05030	64470.	.08070
1.249	006.4-	039760	060/:		.00210	0.00070	.28020	.01280	.04880	C01193	.07820
2.59	-2.500	_	.10710		0.003%0	. 00080	.28770	.0:280	.04860	.06890	07440
5 -			0.65270		.00390	. 00000	.28760	.01300	05640.	01690.	09470.
ď.			00100	001100	02450	000080	. 28350	.01300	6,640.	06890	. 27540
 6-2			•		.00369	00120	. 28080	.01310	C8640.	67073.	.07280
₹. 93					.0360	00200	.27900	. 31333	.05263	.07223	050-0.
- 2.5	071	•	.05150	91153	. 00510	07020	.28970	.01250	0.8+0.	.05733	. 07223
	GRADIEN	7 .06295	02410	77000 0	11000	00083	00012	.0000	5.000.	6551	2003a
		RUN NO.	MO. 42/ 0	O RNVL .	6.6t Sa	ADIENT INTER	GRADIENT INTERVAL + -5.007	5 33			
MACH	AL PHA	3	S.	ò	CAN	GB.	CAF	CBNO	CABO	CABS	CABE
1.463		061757- 0	.2353	0 21310	05700.	. 22350	.29570	01010.	07850.	05853	. 05500
1.463		_	. 16740		B(\$00)	06000.	.29360	000101	.33800	.05500	. 35*10
1.463	0+6 4-	023390	10490		. 00650	. 00050	.29420	. 00990	C8780.	05543	.05350
1.463			0.640	08-10 0	.00743	0.000	. 29280	.31055	01820.	.05513	£593.
1.453	'n		'		0.0970	00090	.29330	0:010.	.03850	06490	. 05940
1.463					09600.	00:60	.29150	21010.	.03860	.05580	.05840
1.463	018 9		·		.01253	00210	.29*83	01010.	.03860	.05543	.05510
1.463		•		•	.00580	.00000	. 29340	06600.	03790	.05470	. 36223
	ç		6 6 6								

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CARE .0776 .0776 .0789 .06960 .06780 .07160 .07520 CABE .08300 .07890 .07890 .07350 .07840 .07840 .07940 CABE .08840 .08540 .08310 .08550 .08650 .08650 ዩ 35 61 J CABS .06510 .05150 .05910 .05590 .05270 .05010 .05980 .05565 CABS .06940 .06370 .05220 .05500 .05500 .05500 .05890 CABS .080%0 .07%80 .07%80 .06760 .06110 .06110 ORBINC . PARAMETRIC DATA (R1N025) 000 CABO .04310 .04100 .04100 .03710 .03980 .04100 .03880 CABO .03950 .03740 .0350 .0350 .03730 .03730 .03960 CABO .04590 .04310 .04310 .04530 .04570 .04550 ALPHA . 010-0 010-0 010-0 000-0 000-0 000-0 010-0 000-0 000-0 000-0 000-0 0 CN80 .0150 .01150 .01130 .01180 .01120 CNB0 .01130 .01080 .01070 .00970 .01080 .01100 .01080 00/ 5.00 GRADIENT INTERVAL - -5.00/ 5.00 MSFC THT 622 (1A125) LAUNCH VEHICLE, 7707-15-213 CAF -20950 -21620 -22840 -23070 -23070 -2400 -22400 CAF ...1870 ...12720 ...13720 ...13540 ...13200 . 15060 . 15060 . 15060 . 15600 . 15600 . 15800 . 16270 . 16300 . 15140 TABULATED SOURCE DATA, MSFC THT 622 (1A125) CBL . 04320 . 02820 . 02820 . 01510 . 00420 - 02650 - 03580 . 00410 CBL...04580 .04580 .03230 .00320 .001150 .02470 .02590 .00290 CBL...05120 .03170 .013370 .00290 -.01330 -.02840 - 13300 - 08780 - 08780 - 04730 - 01000 06750 06930 - 11410 - 01040 CYN
- . 13720
- . 09710
- . 05600
- . 05600
0 . 03920
0 7865
1 . 12710
- . 00750 CYN - 14170 - 09530 - 09530 - 00450 - 00450 - 00450 - 13050 - 13050 - 00280 976.0000 IN. XT .0000 IN. YT 400.0000 000 CY 29200 19280 10500 02110 02110 119940 119940 124400 .29760 .20440 .11510 .01730 -.07910 -.16540 .25800 .30490 .20290 .11000 .01380 .08490 .17390 .26910 - 1/X CLM .02690 .03120 .03120 .04500 .04170 .04120 .0450 11.0 CLM
0.3890
0.04620
0.05620
0.05620
0.0580
0.05670
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0.05770 CLH
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.01760 CN - . 09650 - . 10240 - . 10240 - . 1730 - . 1730 - . 112:0 - . 11380 - . 1650 - . 1650 - . 00131 CN - . 07560 - . 07560 - . 07060 - . 07230 - . 09080 - . 091820 - . 08130 - . 08130 - . 08199 - . 00129 CN - .08130 - .08130 - .08480 - .09540 - .10640 - .10670 - .10700 - .10050 REFERENCE DATA 2690.0000 50. FT 1290.3000 INCHES 1290.3000 INCHES .00%0 -6.500 -4.350 -2.220 -.100 -2.010 -4.140 -6.260 -.100 -6.450 -4.320 -2.210 -.100 2.000 4.109 6.210 -.100 46. 902. 902. 902. 902. 902. 902. 902. \$ 8 8 8 8 8 8 8 8 8 8 . 1965 1965 50ALE .

DATE 96 CCT 75	F. 85		TABULA	TABULATED SOURCE DATA,		MSFC TWT 522 (1A125)	Ĩ.			PAGE	'n
			) <b>S</b>	MSFC THT 622 11	622 (14125) LAUNCH VEHICLE, 77074TS+213	VEHICLE, 7	707415+213		(R1N026)	NOC 81 9 C	k ~
	REFERENCE	CE DATA						•	PARAMETRIC DATA	DATA	
SPEF . STALE . SCALE .	2690.0000 50. FT 1290.3000 1NCHES 1290.3000 1NCHES	FT XMRP DES YMRP CHES ZMRP	976.0000 .0000	.0000 IN. XT .0000 IN. YT				ALPNA	000.	0981NC .	000.
		85 NO.	10/1	RN/L .	6.53 GRAS	GRADIENT INTERVAL	AL5.00/	00.8			
Ą	9£7A	8	£	Շ	Š	8	CAF	CNBO	CABO	CABS	CABE
3.5	-6.590	08390	04740.	.30780	- 14070 -	05350	. 25510	.01260	00840.	08650.	.08500
350	-2.533	- 10080	. 06683	0,4::	05340	01910	.26200	.0:230	.04723	.07590	00870.
1.0.	0.1.+	0.11273	07470.	.01580	03553	07520.	.25340	.01280	04940.	.07420	. 37823
1.044	2.050	11390	.07395	08070	04:40	0.01340	.26390	.01220	04940	01070.	08080
1.044	4.162	25111	07570.	17330	. 2 <b>96</b> 03	02930	08535.	00010	04/20	06/50	02283.
35 d	6.330		.056:0	28392.1	18881.	05000.1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21860	091+0.	. 07580	08080
5	GRAD1E'N	022:8	.00:66	89**0	.08.13	99,00,-	78000.	1,0000	80000'-	00155	60000
		PC# ₩0.	0 /6	.1 .7 .1	6.60 SRAC	SPACIENT INTERVAL	AL = -5.00/	5.00			
3	7.30	ą	ī	Ž	CAN	ð	CAF	CNBC	CABO	CABS	CABE
111	, <del>1</del>	98650	09643	.30700	3620	00700	.26720	.01280	04830	.08260	.08610
	5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	09-60	00630.	22822	39480	.03780	סאטרש.	01280	.04893	. 09200	08280
1.11	-2 263	0.10250	06990	C6511.	05310	09080.	.2753	.0:250	.04780	03620.	.08010
1.1.1	c.	10900	07470.	. 32150	0.010-	00100	. 27490	.01250	04770	06550.	. 07920
1.111	€.03C	- 13959	01420.	073:0	.03530	7.01120	02775.	.0:269	.04793	.07280	01580.
1.111	£.:80	1:080	.07393	16310	55555.	32753	29390	. 01250	COBPO.	06070.	0880
	6.367	00606.1	0.690.0	000007.	100 1 .		C+2FS.	05210.	04770	.07780	01970
-	GRAD!ENT	76:00:-	57100.	+16+0	, 66:10.	6,00.1	.00105	00001	30007	00142	£00000.
		₽ ₽	o 80	BAYL .	6.63 GRA	GRADIENT INTERVAL	/AL5.00/	27 5.00			
HO48	PF 1.4	Š	z d	Շ	CAN	ණු	CAF	CNBO	CABO	CABS	CABE
1.158	-6.660	08920	.05080	31440	13660	.05560	. 27230	.01360	.05170	. 08550	.08810
 	14.470	09*10	.05290	.215.0	09620	0.9860	.27890	.01300	.04960	. 08290	.08120
1.158	-2 280	:0120	.06650	00611.	05550	01550.	. 28460	.01270	. 04820	0.000	0.4920.
1.158	110	11220	.07580	. 82540	01332	.00579	. 28720	.01270	07870.	.07530	07190
951.1	≥.0₹0	0.1111	.07510	0701-	03:70	01079	. 29030	.01260	08740.	082/0.	00440.
95. T	4.210	11080	07070.	-, 16320	.07350	- C2770	05055.	0,010	0.6940	06810.	.08370
951.	6.500	- 10855	0.0550	250 CBC -	000.0	00000	0.583.	05310.	.04830	065/0.	07170.
<u> </u>	GRAD!ENT	00201	77100.	04337	89510	19.00	. 00132	00003	00012	00141	00020

DATE DG OCT 75	۲, الا			TABLA	TABULATED SOURCE DATA,		MSFC THT 622 (1A125)	A123)			PAGE	£ 4
				#SFC	THT 622 ()	14125) LA	MSFC THT 622 (14125) LAUNCH VEHICLE, 77074TS+213	7707475-213		(R1N026)	6) ( 19 JAN 75	ě
	PEFERENCE	ENCE CATA								PARAMETRIC DATA	DATA	
SCALE .	2690.0000 SQ. 1290.3000 INC 1290.3000 INC	F \$ \$	de de la companya de	978.01 10.	978.0000 IN. XT .0000 IN. YT .00.0000 IN. ZT				ALPHA -	000.	- 0481NC -	000.
		ž	<b>25.</b> 16.	0 /21	7.6	8. 8.	GRADIENT INTERVAL5.00/ 5.00	VAL = -5.0	00.2.00			
MACH	BETA	8		£	ሪ	Ē	ළ	C.A.	0 <b>9</b> %	CABO	CABS	CABE
 	<del>-6</del> .6 <del>8</del> 0		2	.03770	. 30260	12730		.27730	.01330	.05070	.07510	. 08260
	-4.500		õ	.0¥380	. 19760	08260	_	.e	.01320	.05050	.07350	. 08060
 23.	-2.270		<u>e</u>	230	. 10170	07170		.20350	0010.	04960	.07250	. 07250
. 255 253	- 100		<u> </u>	.05300	.0100	00300	_	.28300	01270	04850	02170.	.07220
 203	≥.060		2	08290	07970	.03650	•	. <b>2872</b> 0	.01280	09840	02890	554.0.
 	. Y.		0	04.40	17670	.07480	•	.28830	05210.	04930	.05620	02/10
23	6.443		2	.0535L	26683	06£1::	•	. 28930	01310	08650	0/ +50	07840.
. 253	100	08390	2	.05370	0:800	00200		. 28350	.01280	08870	. 07120	.07259
	<b>GRADIENT</b>	-,00122	či	. 801.73	€049	.0180	100723	.00121	- 0000	00013	- 0008+	00022
		3	PCN 750	43/0	BN/L .	<b>3</b>	GRADIENT INTERVAL5.00/ 5.00	VAL5.0	00.8.00			
HACH	SE TA	3		¥.	۲	Š	460	CAF	CMBO	CABO	CABS	CABE
1.459	-e . 700	057730	5	.03730	. 29980	12740	0.05030	.28450	.01100	.04170	. 06 180	06040.
1.459	064.4-	3:673	ب	002-0	. 19060	079¥3	0_560. 0	.28760	.01070	050%0.	. 05930	.06820
1.459	-2.290	08270	ō	.04700	. 09580	03930	00710. 0	. 28820	.01050	00073.	.05720	. 06650
1.459	090	00500	õ	.05050	.01020	-,00510	00400	. 29260	.01020	.03800	.05630	.06310
1.459	€.090	08530	5	.04960	08103	.03280	06600 0	. 29*30	.01050	0,040.	. 05360	.06340
1.459	4.270	00680	9	05170	16760	. 06853	0.02510	. 29861	.01080	04100	. 05060	04890.
1.159	6.480	09350	9	.05160	26230	0.4001	•	. 29950	.01080	٥. وي ا	0.640.	.06507
1.459	100	08530	9	.05000	.0:170	00530		.29150	01010.	.03860	.05550	. 06290
	GRADIENT	00108	Ņ.	.00100.	04081	.01681	100551	.00128	.0000	. 9690	00096	00058

9ATE 36 (	36 007 75		TABULA	TABULATED SOURCE DATA,		MSFC THT 622 (!A125	1A1251			PAGE	34 85
			,	SFC TWT 622 ()	622 (14)25) LAUNCH VEHICLE.	TH VEHICLE.	74075		(R14027)	7) (29 JUL	ر د د
	REFERENCE	CF DATA						-	PARAMETRIC DATA	DATA	
# 1385	2690.0000 50		976.3000					ALPHA .	000.01	ברא-ור	.000
ייי פעל ניי	1290.3000 1WC	44.2 S40		- X - X - 5000 -				51.V-06.	300. 000.	E_V-!R	000.
SCALE .											
		R. K.	. ,918	• 7/NB	7.33 GAA	GRADIENT INTERVAL .	NAL5.007	107 5.00			
MACH	BE 1 A	ટ	į	CAF	Շ	Š	85	8	CABO	CABS	CABE
2.990	-11.190	. *6380	1533:	. 22*20	0.51130	15890	.05930	.00500	.01900	04150.	.02380
€.990		.45603	: 4674	. 22220	.33169	12850	05840	06*00.	.0:850	.02:90	. 02+30
₹.990	ુ <b>.૯ 9</b> -	3185-	- 14069	. 22130	26242	09200	.03730	.02460	.01750	. 02230	02440
≥.990	-4 735	67677		.22:00	.:5723	05540	05+50°	05450	.01720	. 02250	35-30.
2.990	-2.560	+3952	12765	21950	0.081	02550	1.0	05400.	0:7:0.	. 32253	.02350
2.990	390	4351	12345	.2:860	26110	00300	0.00070	09400	01710.	. 02200	. 62393
≥.993	1.783	건가. 환수	12395	.22153	25963	. 22:53	-,0:00	COTOO.	01710	. 52233	. 02293
≥.993	3.950	. **328	:38::	22300	:3250	0.640.	32030	07400	069:01	00610	. 02350
2.990	6.133	£5625	- 14,38	. 22823	2.23.43	06080	03350	0.4400	0:670	.01672	. 32553
≥.990	B. 360	+63.3	1.140	. <b>23</b> 020	2-508	298	0.040.1	09+00	.01750	.01523	. 32×83
≥.990	10.400	MrCL,	1.18184	.83530	C + 55 FT +	(): (): ():	1.08630	06*00.	C:863	.015=0	C+-40
€.990	- 375	43435	2429	.2:8T	0000	( ) ( ) ( )	02000	00,00.	0.0730	.22,32	.38~33
	GRADIEN*	1,000 -	0+000	6826C.	6:223 -	321.0	- 00513	1.0000	-, 00003	68888 -	- 000:0
		P. P. S. S.	5 /6:60	* 1.Nd	4.99 SRA	SRADIENT INTERVAL .	WAL5.007	07 5.00			
MACH	<b>66</b> TA	క	9 1	CAF	វ	ç	æ	CBND	CA90	CABS	CABE
4 450	-10 769	. 33875	39366	. 20390	.30750	10790	. 24523	.05209	08200	. 30923	31010.
4.45	-B 760	33799	- 2995.	01661.	.24450	- D8540	03850	01500.	00800.	. 30950	31030
4,450	-6 650	.33055	39327	01.20	37775.	-, 05923	. 52723	0.000	00913	0.00970	.01050
4,450	1, 563	. 32989	- 2837	0.189∙0	.:1530	01750	01, 10	01500	00800.	0.00970	.01050
4.450	Cr+ 4-	5:53:5	1.07944	. 18650	00490	0.940	3660.	5:250.	. 00920	00970	.010:2
5. 4BO	- 360	32-55	58.97	. 18523	0.010	- 55830	00000	01500.	0.800.	08600	55210.
4.450	1.710	32749	- 3 <del>9</del> 53:	. 18650	04230	C:583	367:5	0.550.	. 006. )	.01903	05010.
4.450	3 800	. 33629	2875;	. 18980	09753	.03:30	5,030.1	01500.	. 00830	0.00970	.0:530
4.450	5 920	33539	287+:	. 19390	15630	28:30·	- 32443	01500.	02800.	00600	.21553
4.450	0*0	34509	1.3961.1	.20200	22000	.07493	53300	01500.	.00830	.00830	090:0:
4.450	10 030	.3≁999	-10341	04502.	28750	02001.	0+250	. 00223	.00850	.00830	00107
4.450	- 330	. 324:16	2627	. : 8623	ocace.	0:000.	37000	. ၁၀၉၁၀	C-8CO.	. 00920	.01059
	GRADIENT	. 00082	-, 00058	.00003	32555	60800.	-,0039;	0000	.00003	10000	09001

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3	DATE 06 OCT 75											
				#SFC 7	HT 622	A1251 LAU	MSFC TUT 622 (TA125) LAUNCH VEHICLE, 7407S	5.0%		(P1N027)	7) (29 J.K.	الم -
	REFERENCE	ENCE DATA								PARAMETRIC DATA	DATA	
386	2690.0000 SQ. F	<b>-</b>	9.	976.0000	0 IN. XT				ALPHA -	10.000	ELV-11 -	000.
1986 1986 1986	1290.3000 INCHE 1290.3000 INCHE	INCHES ZHER	 & &	. 0000 400 . 0000	0 IN. YT				ELV-OL . ELV-OR .	000.	ELV-1R =	000
		PE		0 /818	RN/L .	5.16	GRADIENT INTERVAL5.00/	VAL5.0	10/ 5.00			
MACH	9£7A	3	รับ		3	5	Č	룡	0 <b>6</b> %	CABO	CABS	CABE
4.959	-10.670	.31851	6	.07915	.20420	29340	10320	06440.	.00150	.00580	. 00680	.00710
4.959	-8.680	_	6	<u>4</u>	19890	.22850	07760	.03*00	.00150	. 00590	01/00.	04,000.
4.959	-6.600		0	.07515	. 19360	. 16620	05420	.02470	.00160	.00610	02,00	37700.
4.959	4.50	•	0	.07375	. 18920	. 10863	03390	.01620	.00150	.00610	.00750	.03780
4.959	-2.450	•	.0	. 05878	. 18580	.06140	01930	04600.	. 03169	.00630	.00760	.00763
4.959	- 350	.30584	, G	. 37608	. 18530	.00750	00060	. 00000	.00160	.00530	.00770	07703.
656.	1.700	•	9.	7505	. 18520	03990	.01140	00560	.00160	.03640	.00780	. 00780
.959	3.770	٠	.0	07535	. 18920	09140	. 02860	01540	. 00160	. 00540	.03760	06400.
4.953	5.890	_	.9	. 97728	.19380	14290	. 04463	02250	.00160	.00530	31,00.	06400.
4.959	7.980	•	9.	.08725	.20120	21060	07:00	03200	.00160	04900	.00670	06700.
4.959	9.953	.32604	9	98460	.20710	27560	029630	04170	07100.	.00560	. 00660	. 00800
4.959	350	•	0	.07458	. 18623	00600	00063	. 00020	.00170	. 00660	01/00.	. 00800
	GRADIENT		0	94000.	<b>20000</b> .	02418	.00751	00382	00000	.0000	. 00002	. 00002

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DATE 06 OCT 75	27 75			TABULA	TABULATED SOUNCE DATA.		MSFC TWT 622 (1A125	A 125			PAGE	0.80
				<b>1</b>	; THT 622 (	14125) LAUS	MSFC THT 622 (1A125) LAUNCH VEHICLE, 740TS	2104		(R1N029)	JAC 62 ) (8	k.
	REFERENC	ENCE DATA	_							PARAMETRIC DATA	: DATA	
• •	2690.0000 SQ.	F 5	district the state of the state	976.0000					ALPHA .	20.000	ELV-11 .	000.
BREF 7	1290.3000 INC .0040	ES H	œ Ž	- 60.	400,0000 in. 21				• ELV-08	939.		
		æ	PEN NO.	914.0	FN/L .	£.35	GRADIENT INTERVAL	VAL5.00/	10/ 5.00			
HACH	BE 1A	3		5	CAF	Շ	CYN	ą	CNB0	CABO	CABS	CABE
2.990	-11.150	P80:+0°1	28	35011	.20530	.37570	13500	.06210	05.430	.01630	. 02080	. 02300
2.990	-9.060	1.0+07:	::	- 3444S	. 20000	.29570	-, 10440	.05110	05,400.	.01590	.02110	.02279
2.990	-6.890	_	ğ	33438	19690	.21650	07:70-	.03810	01+00.	.01580	.02160	. 02250
2.990	-4.700	1.01791	:61	32715	19550	1.13900	•	.02410	6 ¥35°	.01590	.02170	. 02270
2 990	-2.540	1.00947	ĭ	-, 32:32	.:5930	.06700	01590	06010	01400	.01570	.021 <i>2</i> C	. 82250
2.990	380	1.05837	101	3:082	34:02	04500.	06000.	-, 30090	06230.	08+10.	J8020 .	. 0255t
2.990	1.785	•-	1.	31962	.23183	-, 05453	.31460	01270	06200.	08410.	. C2050	0:220.
5.990	3.950	_:	Ę	32992	3866;	:2300	. 03729	~. 02523	CO+00.	04810.	02020.	. 52333
≥.990	5.150		30.	339:8	1,9690	25280	. 06683	03820	00+00	.01550	01020.	. 02350
€.990	8.370	1.04947	Į.	5.35072	.20153	28330	0:960.	05!30	0:400	01570	D2610.	32340
2.990	10.420	1.05734	70	35888	.20730	35660	. 12210	06240	02+00	.01643	00610.	.02380
2.990	330	1.00920	550	31325	.20300	.09:60	.00320	03130	06200	.01506	. 02050	.02550
	GRAD LENT	. 00057	157	_1000°-	.00047	02985	.00863	00565	30002	-,00009	-:000:-	۵۱ د د د
		æ	9. 25.	813/ 0	- 1/A	2.99	GRADIENT INTERVAL5.00/	VAL = -5.0	00/ 5.30			
H)	BE TA	8		٦ ٢	CAF	Շ	νć	뚕	CNBC	CABO	CABS	CAGE
4.450	-10.740		<u></u>	28904	. 19960	. 26920	09590	.04700	. 60189	. 20700	.03983	. 31093
4. +50	-8.740		928	27801	. 19300	. 22350	07080	.03700	.06130.	.00710	.01900.	.01080
4.450	-6.643		<b>.</b> 963	27584	0L881.	. 16420	05070	. 02790	.00180	.00700	. 00930	. 00960
4.450	-4.520	1:029:		2744B	.:8670	. 10510	02980	.01880	07100.	.00670	04600.	G2600.
4.450	05 × 2-		100	27394	.18390	.05000	•	08600.	09100	.00700	0,4600	0:606.
4,450	360	. 84035	335	- 27338	. 18392	00010		00040	.00180	.00690	06600.	00000
4.450	1.730		ጥፌ	2753!	. 18520	05280		01320	.00170	. 00650	01600	01600
4.450	3 820	-+9+8.	1.40	275-8	. 1665u	10370	. 03230	02270	07100.	. 00660	02600.	03600.
4.450	5.920	1.84851	Ē	£782∵-	. 18950	17350	-	03260	.00180	. 00700	€2600°	06653.
4.450	8.040	. 85985	89	29229	119400	22520		04050	06100	.09720	.00910	. 00900
4.450	10.020	·	50.	30298	0+102.	28770	Ĭ	05100	06:00	. 00750	03800	0.6699
4.450	360	•	15:	. 28194	. 18920	00240		00080	.00180	. 00700	03600	21600.
	GRADIENT	78000.	187	00050	.00005	02496	75700.	00508	00000	00003	00003	.0000

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TABULATED SOURCE DATA, MSFC THT 622 (1A125)

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000 K **39 名** ELV-1L ELV-1R PARAMETRIC DATA (R1N029) 20.000 .000 .000 ALPHA ELV-OL ELV-OR MSFC THT 622 (1A125) LAUNCH VEHICLE, 740TS : 7.7 REFLIRENCE DATA 2690.00:0 50. FT 1290.3000 INCHES 1290.3000 INCHES .0040 SREF LREF BREF SCALE

CABS
.00630
.00650
.00660
.00680
.00690
.00710
.00710
.00720
.00720 CABO .00490 .00500 .00500 .00490 .00490 .00560 .00560 .00560 CNBO . 00120 . 00130 . 00130 . 00130 . 00130 . 00140 . 00140 GRADIENT INTERVAL = -5.00/ 5.00 CBL .04740 .03570 .02810 .02810 .02550 .00030 .01060 .01060 .02170 .02990 .02990 .02990 .02990 .02990 .02990 .02990 CYN - . 09200 - . 0730 - . 05140 - . 05180 - . 01580 - . 05210 - . 05210 - . 05210 - . 05210 - . 05210 - . 05210 - . 05210 - . 05210 - . 05210 - . 05210 - . 05210 - . 05240 - 0 CY .27800 .16170 .10530 .00030 ...04940 ...04940 ...04940 ...09930 ...09930 ...281961 ...281960 ...28451 ...281960 ...28451 CAF ...20400 ...19660 ...19660 ...19710 ...19710 ...19710 ...1970 ...19870 ...19870 ...19810 ...19810 ...19810 ...19810 ...19810 ...19810 ...19810 ...19810 ...19810 ...19810 ...19810 ...19810 ...198460 ...198460 ...198460 ... CLH
- 27975
- 26912
- 26425
- 26425
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- 27385
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- 27385 B15/ 0 PLN NO. BETA -10.660 -8.570 -6.590 -7.510 -7.510 -360 3.780 3.780 5.890 7.950 9.960 9.960 9.360 9.360 9.360 9.360 9.360 9.360 

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DATE 96 0CT	X 73		TABULA	TABULATED SOURCE DATA.		MSFC TWT 622 (1A125	¥:02			PAGE	85
			rSF.	TWT 522 (	IA1251 LAUNG	MSFC THT 622 (IA125) LAWCH VEHICLE, 74015	7~015		(RIN029)	JY 62 ) (8	k.
	REFERENCE	NCE DATA							PARAMETRIC	DATA	
SHEF . SCALE .	2690.0000 SQ. FT 1290.3000 !NCHES 1290.3000 !NCHES .0040	SQ, FT XMAP INCHES YMAP INCHES ZMAP	976.0000 .0000 .0000	.0000 IN. XT .0000 IN. XT				ALPHA . ELV-OL . ELV-OR .	0000	ELV-11 .	000.
		RUN NO.	821/0	RN/L .	4.33 GRA	GRADIENT INTERVAL	WAL5.00/	00/ 5.00			
MACH	BETA	Ž	r d	CAF	Շ	Š	<b>8</b> 5	CNBO	CABO	CABS	CABE
2.993	-1:.280	08658	. 25885	.24880	0.4774.	19310	.05610	.00460	.01770	.02380	. 02610
2.930	-9.170	09342	. 05859	.24460	.37710	15350	.04560	.00430	.01663	.02400	.02630
25.930 60.00	96.3	09395 0960	30850.	02:52	54575.	11600	07880.	02500.	01010	08550	08020.
066.5	10		51500.	02022	06001	0.488.0	0 m	01100	01670	CERTO.	02550.
2.990	390	31260 -	. 26502	0.00%	.02:50	99.00	00800	07+60	0170	.02280	. 02623
2.530	1.770	08998	. 06295	. 24230	03.60	. 02523	00583	02420	01710.	06.50.	.02650
2.990	3.950	C9C98	. 05255	. 24550	:-253	00000	01620	05+00.	.01710	01880	02550
2.990	6.183	089:2	.05939	.25023	23570	C-581.	02730	04400.	06910	02810.	. 02693
2.990	0.410	35828	. 25855	.25490	33250	:35-0	03990	. 00450	.01710.	.3:760	.08650
2.990	10.500	16260	64590.	. 25950	C 6884	17510	05383	09400.	03710.	01710.	. ე254
≥.990	- 360	-,29033	.05315	.24170	1971G.	30253	09:00:	05+00.	01710.	. 02180	.02630
-	GRADIENT	41 C) C)	8:000.	65000	03775	66	00436	S0000.	. 00005	9,000	90000.
		P. VO.	820/ 0	1/Ng	5.00 GRA	GRADIENT INTERVAL	VAL = -5.00/	307 5.30			
MACH	9£1A	ઢ	<u>م</u>	CAF	Շ	Ž	ę	CNBO	CABO	CABS	CABE
4.450	-10.883	B+1C3	.05845	.23:00	01/10	14950	06540.	01500.	.00820	.01000	.01090
1.50	-8.850	13073	. 05569	ÛħħZZ.	. 29953	:1650	. 03599	.00210	00800.	.01020	.0:120
4,450	-6.719	05878	.05465	.21863	. 22380	08590	07850.	.05500	. 20790	.01050	.01160
4.450	-4.600	1.07041	. 25559	.21830	. 15:90	05720	.01760	. 00200	.00770	.01050	.01:50
4 450	-2.490	0728:	. 05539	.21150	. 08550	0.04170	62600.	. 00200	.03779	.01060	.01150
4.450	393	27785	.05752	31543	.02059	C-855.1	01500.	.00500	.00783	01010.	.01160
4.450	1.710	38008	.05775	.21270	-, 34703	. 31953	00550	. 00210	06200.	09010.	24:10.
4.450	3 610	165161-	.05339	. 21733	11220	07870.	01270	.00210	. 20803	.01030	08::0.
4.450	5.950	07671	.0527	.22010	18550	.0722	02220	.00210	.00830	00000.	081:0
4.450	8.080	07295	.04663	. 22810	26053	10190	03030	01500.	01800.	02600.	.0110.
4.450	10.050	07998	.05176	.23510	33200	. 12930	03940	.00210	. 00820	06800.	.01170
4.430	290	7805	.05743	. 21350	.02200	00650	.00320	01500.	01800.	0000.	.01170
	ORADIENT	tr: .	9,000	00001	03144	.0120:	00351	10000.	70000.	00003	,000°.

DATE 06 OCT 75	CT 73			TABUL	TABUL: TED SOURCE DATA,		MSFC THT 622 (1A125)	(141 <b>23</b> )			PAGE	88
				¥	C THT 622	(1A125) LA	MSFC THT 622 (1A125) LAUNCH VEHICLE, 740TS	74015		(R1N029)	M 88 ) (8	<b>k</b>
	REFERE	RENCE DATA	<b>₹</b>						_	PARAMETRIC DATA	DATA	
SREF BREF SCALE	2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES .0040	SO. FT INCHES INCHES	X X X	976.	976.0000 IN. 9 0000 IN. 9	tht			ALPHA . ELV-9L . ELV-09 .	000.	ELV-1L • ELV-1R •	630 .
		•	<b>3</b> 5	0 /618	שאיר •	ي ق	GRADIENT INTERVAL .	RVAL5.00/	0/ 5.90			
MCH	BETA	3		C.	S,	Շ	Š	85	OBNO	CABO	CABS	CABE
4.959	-10.710	•	.07393	.06179	.23280	. 35460	•	.04380	. 20150	. 00590	04400.	.00790
4.959	-8.73(	•	.07!56	.05722	. 22430	_	•	OBYEO.	. 00150	. 00600	.00760	. 50820
4.959	-6.62(		. 06915	.05562	. 22056		٠	. n2610	. 20150	. 00600	.00780	.00840
4.959	1.53(	·	7043	.05509	31815.		005460	.01710	.00150	.00590	. 00800	.00950
4.959	); + . Q-		07183	. 05529	.21180	.08160	003010	0.00970	.00:50	.00590	. 0081C	.00860
£.959	38(	•	7596	.05632	.21120		٠	.00200	. 20150	. 00500	.00830	.00870
4.959	1.700		37369	.05423	.21200	•		00510	.00163	.00610	.00830	. 03880
4,959	3.790		07252	64050.	.21430			01450	. 32163	.05820	.00810	. 00860
4.959	5.900		7606	.05362	. 22015		06570. 0	02260	.00160	.00630	06200.	.00890
4.959	9.016	•	07415	. 05052	. 22710	25450	00101.	03090	.00160	.00630	04400.	. 30893
4.959	9.970	•	07759	.05:95	. 23500	•		03980	.00169	.00640	01700.	.00890
4.959	380	•	.07609	.05515	. 20905	.01560	000320	.00230	09:00	0.00640	.00760	. 09893
	GRADIENT		00029	00049	00016	03150	0.01219	00375	.00001	<b>,0000</b> .	.0000≥	.0000.

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TABULATED SOUPCE DATA, MSFC THT 622 (TA125)

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(RIN030) ( 29 JUL 75 MSFC THY 622 (!A!25) LAUNCH VEHICLE, 740TS+PLUME

999 ELV-11 ELV-18 PARAMETRIC DATA 900. ALPHA ELV-OL ELV-OR 976.0000 1N, XT .0000 1N, YT 400.0000 1N, Z \* \* \* \* REFERENCE DATA 2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES .00%0 SAEF LREF BREF SCALE

-5.00/ 5.00

GRADIENT INTERVAL

5.05

FEN 160

CABE 00660 00660 00660 00660 00660 00660 00660 00660 00660 00660 00660 . 00550 . 00550 . 00550 . 00560 . 00700 . 00700 . 00700 . 00700 . 00800 . 00800 . 00830 . 00530 CBL . 04190 . 03180 . 02230 . 01380 . 0180 . 00180 . 14100 - 1690 - 07820 - 07820 - 07950 - 02150 - 05190 - 05190 - 15020 - 01520 - 01520 . 36860 . 26930 . 21520 . 14197 . 17197 . 10520 . 10520 . 19150 . 18150 . 32870 . 32870 . 32870 CLA .05779 .05169 .05162 .05145 .054508 .04508 .04509 .04669 .04689 .04689 BETA -10.840 -6.820 -6.580 -2.480 -7.590 -7.20 3.860 5.960 8.000 10.070 -360 6.0000 6.000 

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TABULATED SOURCE DATA, MSFC THI 622 (1A125)	MSFC THT 622 (IA125) LAUNCH VEHICLE, 740TS+PLUME (RIN031) ( 29 JUL 75 )	PARAMETRIC DATA	975.0000 IN. XT ALPHA = 10.000 ELV-IL = .000 .3003 IN. YT ELV-OL + .000 ELV-IR = .000 400.0000 IN. ZT ELV-OR020	RN/L + 5.03 GRADIEI: INTERVAL5.00/ 5.00	Ü	05100. 00000. 00000. 04460. 05201 05205. 05961.	01000 00000. 00+61. 01910 01855. 05+61.	00,000. 08000 05000 01,50. 0550 06091.	18450 - 11250 - 03340 - 00050 - 00040 - 01500 - 00550	. 18000 . 05000 01680 . 00790 00050 00530	0530 . 0450 - 0000 - 00550 - 00550 . 00500 . 017930	35004560 -01510 -00750 -01510 -0450 -01510	06100. 05400 01100 05410 07750. 04260 01161.	.196701527004760022600008000333	.20150 - 21650 - 00100 - 03190 - 00100 - 00360 . 0019C	.2084027750 .09190039400013000500 .00250	. 1832	
[A125)	74075+PLUME		<b>ਵ ਹ</b> ਹ		æ	09440.	.03400	. 02*10		06200.	05200'-	00750			03190	0.03040	00300	20100
C THT 522 (	CH VEHICLE.			NADIERIT INTE	Š	10260	07910	05230	03340	01580	05,00.	01510.	.02770	.04760	.07020	06160.	.00470	
	IAI251 LAUN				Շ	.30230	.23810	16890	.11250	.06000	.00280	04260	04560	15270	2:650	27790	.00290	
ATED SOURCE	C THT 622 (			FR/L	JA.	19960	19430	. 18930	. 18450	. 18000	.17930	. 18460	. 19:10	. 19670	.20150	.20840	18025	
TABUL	£\$£			. 801/ 0	r U	-, 08460	08053	06477	08910	+1.98414	08301	08815	-, 09: 35	-,09161	-, 09588	10278	71880-	
		NCE DATA	. FT XMSP CHES YMSP CHES ZMSP	PCN NO.	Z	32880	.33313	32896	33329	32.55	.32058	32740	.33360	33198	3369	3+483	40.10	
27.		REFEREN	2690.0000 SO. FT 1290.3000 INCHES 1290.3000 INCHES .0040		¥1.4	-10.750	-8.760	-6.650	150	094.6-	- 350	1.710	3.810	5,900	8.030	10.010	1770	)
DATE 06 OCT 75			SPEF = 28 LREF = 18 BPEF = 18 SCALE =		HAN	, E	9	1	653	150	000	450	4.450	007.3	1	2.50	י י	

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			AL PHA
ישטרים מסטיבו מאישי שלה יאי מוני יישי מיים	MSFC TAT 622 (1A125) LAUNCH VEHICLE, 740TS+PLUME		- 2690.0000 50. FT XMRP - 976.0000 IN. XT
	ÿ,		976.
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		2	S X
		PEFERENCE DATA	Ł
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CABE .00410 .00220 .00170 .00110 .00010 .00020 .00020 .00020 .00020 .00020 .00020 .00020 000 CABS --00250 --00140 --00170 --00170 --00150 --00150 --00150 --00150 --00150 --00150 --00150 --00150 --00150 --00150 ELV-14 ... PARAMETRIC DATA CA80
---00180
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---00180 20.090 000. 000. ELV-OL . -5.00/ 5.30 CBC. 03750 03750 02877 02870 01550 01550 01550 01550 01550 01550 03110 03110 03110 03110 03110 03110 GRADIENT !NTERVAL . CYN - 08710 - 04580 - 04580 - 04580 - 0120 - 0120 - 0130 - 0130 - 0130 - 0120 -28810 28980 2019 10000 IN. YT 20660 20660 20660 20679 20679 20679 20679 20679 20679 20679 20699 206799 206799 2067 . 25391 . 26581 . 25591 . 25591 . 26591 . 26591 . 2658 4 4 8 P 1290,3000 INCHES 1290,3000 INCHES .0040 10.740 -8.740 -6.640 -7.550 -7.550 -7.550 -7.360 -7 SPEF . LREF . BREF . SCALE . 

DATE 06 OCT	۲. ک			TABULA	TABULATED SOURCE DATA,	CE DATA.		MSFC THT 622 (1A125)	ĝ				PAGE	8
				35£	. TWT 622		LAUNCH	MSFC TWT 622 (1A125) LAUNCH VEHICLE, 740T	¥01		g.	(R:N033)	₩ %	. 27
	ACF E	REFERENCE DATA	2								PARAMETRIC DATA	RIC DAT	<	
	2690.0000	50. 61	XHE	• 976.0	976.0000 IN. )	×τ				AL PHA	.000		ELV-1L =	.000
LREF .	1290.3000	INCHES	YMARP	0000.004 -	<u>;</u> ;	77 27				ELV-01.	000.		. E.	900
•	0400.		RUN NO.	0 /808	RN/L	5.02	GRAD	GRADIENT INTERVAL .	AL5.00/	00 & 00				
MACH	BETA	Š		มี	CAF	۵		Ç	<b>1</b> 85	0 <b>9</b> %	CABO	_	CABS	CABE
4.450	-10.790	Ť	.03187	.02676	.17880	_	•860	12950	.05330	.0023	·	80	.00000	.01180
4.450	-8.80	•	3651	.03070	04461.		.27670	10130	.04520	. 0023		8	. 00000	.01200
4.450	-5.67		121	.03450	.17010		.20730	07580	.03170	.00230	08800. 0	8	.00000	.01200
4.450	1.58		04867	.03976	. 16630		3800	0.4940	.02040	.0023		90	.00000	.01210.
4.450	-2.48		05424	.04273	. 16200		.07690	02600	.01160	.0023		5	.00000	.01210.
4.450	.38		520!	62040.	. 15900		1260	00350	.00170	. 0022		8	. 00000	.01220
4.450	1.72		5231	650+0.	. 16!4	•	.05140	. 91900	00720	. 0022		50	.00000	.01230
4.450	3.82		05051	.03939	. 16560	٠	11270	.04120	01690	.0022		8	.00000	.01230
4,450	5.93		04541	.03519	. 16880	•	18:80	.06690	02830	. 0022		20	00000	.01230
4,450	8.05		•02·	.03103	. 17450	•	.25060	01160.	03780	.00230		5	. 00000	.01230
4.450	10.050		0%001	.02840	. 1 7990	•	.32200	.12163	04880	. 0023		8	. 00000	.01239
4.450	-, 380	•	04907	.03836	. 16120		.02810	. 00290	.00200	0053	08800. 0	8	. 00000	.01240
	GRADIEN	·	00008	00014	00010		02998	77610.	00445	0000	100002	25	.00000	.00003

DATE 06 DCT 75	CT 75		1A9C	TABULATED SOLPCE DATA,		MSFC THT 622 (1A125)	A125)			PAGE	8
			¥.	FC THT 622	MSFC TWT 622 (1A125) LAUNCH VEHICLE, 740T	CH VEHICLE,	740T		(R14034)	ज्य हर ) (स	ا د
	REFERENCE	NCE DATA						-	PARAMETRIC DATA	DATA	
	2690.0000 \$0	<u>.</u>	• 976		<b>(</b> 1		•	ALPHA .	10.390	ברא-זר	200.
	1290.3000 INCH	NCHES ZIMPP		* .NI 0000.00*	,. <b>,</b>		<b>4</b> W	ברא-פר	996.	ELV-18 •	200.
1		PGN NO.	0 /608	PR/L	5.00 GR	GRADIENT INTERVAL .	IVAL = -5.00/	5.00			
F. CH	<b>95</b> TA	ક	S,	ÇAF	Շ	CAN	兵	CMBO	CABO	CABS	CABE
4.450	-10.760	.23106	06447	14220	. 29880	09840	04740.	.00220	04800	.00000	.01120
4.450	-8.760	.22519	06181	•	·	07800	.03790	. 00220	.00860	00000	.01120
4.450	-6.660	61412.	05601	0.486.		05770	. 02870	.00220	.00669	00000	.01070
4.450	-4.560	.20366	04977	13570	.11420	03470	01810.	.00250	.00870	.00000	010.
4.453	-2.460	19459	0.04040			01643	. 00980	.00230	J6830'	. 03300	.0100
4.450	- 370	60261	04431			00:80	. 00130	.00220	.00850	.00000	.01950
4.450	1 7:0	91161.	04467		•	.01250	00730	.00230	.00870	00000	.01350
954.4	3.810	. 19503	1.04734	13840		.03240	01640	.00230	. 00880	.00000	08010.
4,450	5.9:0	.20153	05254			02640.	02470	.00233	.03890	.00000	.01080
4.450	8.030	.21559	95260		2.500	.36760	03330	.00230	. 00890	. 00:300	0+010.
4.450	10.0:0	3.555.	06787		·	06880.	24230	. 00230	. 00900	00000.	.010+0
4.450	370	. 19339	04370	•		0,00070	04000.	.00230	. 30890	.0000	.01073
	GRADIENT	09099	.90030	•	02546	C9720.	5:400	. 95001	. 30000	00000.	. 00006

DATE 06 OCT 75	XT 73			TABULAT	TABULATED SOURCE DATA,		MSFC THI	MSFC *WT 622 (1A125)	χ <u>.</u>			PACE	<b>6</b> 6
				MSFC	TWT 622 (	(141 <b>25</b> ) L	AUNCH VE	MSFC TWT 622 (TA125) LAUNCH VEHICLE, 740T	<b>-</b>		(RIN035)	53 (289 ALL	. 25
	REFER	REFERENCE DATA									PARAMETRIC	DATA	
SAEF . LREF . BREF . SCALE .	2690.0000 SQ. 1 1290.3000 INCH 1290.3000 INCH	F 8 8	X HEST	976.0000 .0000	776.0000 1N. XT .00000 1N. YT .00.0000 1N. ZT	<b>.</b>			₹ਹਹ	ELV-OL	20.000 .000 .000	ELV-1L = ELV-1R =	000.
		PC	ģ	0 /018	PN/L	5.05	GRADIEN	GRADIENT INTERVAL .	-5.00/	5.00			
H	1	8		r U	CAF	ò	J	CYN	幺	CNBO	CABO	CABS	CABE
3	•	_	ır	17558	12990	.28860	•	.08550	. 05080	.00180	.00720	00000	.00720
1				16671	12600	. 22800	•	.06580	04010	06100	0.007	00000	.00670
1 100			· m	- 15291	. 12200	. : 5500	•	054430	. 02920	.00500	07700.	. 00000	04900.
1				14781	12050	. 10980	•	. 02930	06610.	.00500	07700.	00000	0.900
3				14038	. 11850		•	.01070	.00930	.00500	.00780	. 00000	.00670
25.3		62994	, m	14041	. 12020			. 00320	00060	.00210	.00800	.00000	. 00650
1,000				14344	01611.	•		01040	00870	.00210	.00820	. 00000	. 00650
1053				15187	. 12109	٠		. 02350	01750	.00220	0.800	. 9000	.00653
200				16081	.12150	'		. 04310	02770	. 00220	.00830	. 0000	. 00660
1000	0.0.0	51622	. ^-	17314	12350	•		. 05450	. 03890	.00210	.00820	00000.	.00670
150				:8651	.12750	•	•	. 08570	04870	.00210	.00800	C0000.	. 50650
1		_	ırı	14007	. 12080	•	·	. 00860	0,000	.00210	.00810	. 00000	.0065
:	8		יור (	00054	.00010	02428	·	. 66500	00440	. cooos	60000.	00000	-,00000

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MSFC THT 622 (1A125) LAUNCH VEHICLE, 740T-PLUME

## PAGE 90

(RIN036) (29 JUL 75 )

DATA
PARAMETR1C

REFERENC	ENCE DATA								PARAMETRIC DATA	DATA	
2690.0000 SQ. F	ON X	&	976.0	976.0000 IN. XT				ALPHA .	.000	ELV-!L =	000.
Ž	HES YMBP	* &	ĕ	TY .NI 0000.				£1.V-OL =	. 000	ELV-1R =	000.
1 <b>290</b> .3000 1NCH	ES ZHEND	• &	G .007	400.0000 IN. ZT				ELV-0R =	000.		
	PCN NO.		0 /608	RAV.	J. 2	GRADIENT INTERVAL .	VAL5.00/	90/ 5.00			
	3	6	5	CAF	Շ		<b>18</b> 3	CNBO	CABO	CABS	CABE
10.830	03147	•	.02387	. 16970	.35050	012580	.05000	00260	01020	٠	.00960
	04176	•	02937	.16710	.2739		.03760	00220	008+0		03813
	03695		87750	. 16450	.2005		.02680	00189	-, 00690		03760.
	04274		53138	. 15110	. 1338		.01560	00150	00570		00000
_	04183		97020	.15530	·970.		.00770	00100	00390		. 22883
_	04005		02652	.15080	.058		00280	00070	00290		38+CO.
	04457		53102	.15670	6240		00580	00120	00470		50+1G
	041.5		77620	.:6410	0999		01080	00210	00910		.035-3
_	03800		04540	. 16759	167		02180	00250	00950		0+900.
_	03239		94120	.17470	2430		033+0	003+0	01320		00100
	03!+9		02041	. 183+0	3147		04393	00470	01810		.90783
380	03836	•	28920	.15580	0013		00250	00110	04400°-		. 52533
	S0000.	·	*100c	.00035	0279		03325	00097	00027	c000a.	02024

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MSFC THT 622 (1A125) LAUNCH VEHTCLE, 740T+PLUPE

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(28 JAL 25) PAGE 91

(RIN037)

	REFERE	RENCE DATA	<b>.</b>							PARAMETRIC DATA	: DATA	
Seer		50. FT	X	976.0000	000 IN. XT				ALPHA -	10.000	ברא-זר	000
LAEF		INCHES	A MARIO	•	0000 IN. YT				ELV-0.	000.	ELV-IR .	000
BREF .		INCHES	œ 12	- 400.0000	1000 IN. 27				ELV-OR .	.000		
		Œ	PUN NO.	806/ 0	RN/L	5.03 GR	GRADIENT INTERVAL5.00/	WAL5.0	90/ 5.00			
MACH		8		C.	CAF	Շ	Š	ස්	CNBO	CA80	CABS	CABE
4.450	077.01- 0		136	06247	. 13840	.29790	09600	04940	00020	00080	00000	.00380
4.450			112	05674	07451.	.23490	07470	.03630	00030	-, 00130	00000	.00300
4.450			595	05+38	. 13380	.17830	05740	.02790	00070	00290	00000	.00210
4.450			908	05141	. 13060	.11560	03480	.01690	00070	00270	.00000	.00160
4.450			. 19335	04767	. 12930	0.06040	01780	.00850	00050	00200	00000	.00210
4.450			1330	04750	.12880	07116.	00510	0.500	00010	00060	.00000	.00120
4, +50			¥85	04894	. 13000	03740	07700.	00470	00050	00220	.00000	.00150
4.450			15.5	05458	.13390	09370	. 52580	01400	00110	04400	00000	.00150
1.450			979	05825	.13710	14910	06140.	02290	00170	00640	.00000	.0920
4.450			985	06304	.13700	20950	.06150	03190	0,000	00160	.00000	.00300
4.450			171	97225	.14390	26730	07990	0.04040	00090	00370	.00000	.00380
4.450			160	04690	. 13060	.00320	01+00	00140	00010	00060	.00000	01150.
	GRADIENT		5	-,00035	52000	02470	50700	-,00359	+00000-	00017	00000	-,00004

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TABULATED SOUPCE DATA, MSFC THT 622 (1A125)	
06 OCT 75	

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# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		<b>k</b>	000.		CABE .00300 .00300 .00000 .00000 .00010 .00010 .00010 .00010 .00010 .00010 .00010	· · · · · · · ·
	PAGE	. 23 J.C.	ELV-1L .		CABS 0.00000000000000000000000000000000000	
		(RIND39)	3 000. 3 000.		CABO - 00000 - 0000000 - 0000000 - 0000000 - 0000000 - 0000000 - 00000000	
		•	ALPHA . ELV-OL . ELV-OR .	0/ 5.00	CABO . 00000 . 000000 . 00000 . 000000 . 00000 . 000000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 0000000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 000000 . 00000 . 00000 . 00000 . 000000 . 0000000 . 000000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000 . 00000	
	1×136	7*07+PLUME		WAL5.00/		
	THT 622 11	VEHICLE.		GRADIENT INTERVAL	- 08370 - 06480 - 04150 - 04150 - 01000 - 010000 - 01000 - 01000 - 01000 - 01000 - 01000 - 01000 - 01000 - 010	
ができる。 ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	DATA.	HAIRS) LAUNCH		5.0% GR	CY	
ş.	2005	*W* 622	976.0009 1N. XT 7V.0000 . 7V. W1000.0000 . 400.0000 XT	- 1/NE		
	TABLEATED	S £		0. 805/ 0	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
		REFERENCE DATA	SO. FT XHRB INCHES YMPB INCHES ZHRB	P. NO.	CN -5160 -5160 -51600 -560	
	25 25	REFERE	2690.0000 s 1290.3000 ii 1290.3000 ii		96.14 -10.760 -8.760 -4.550 -2.460 -3.70 10.030 10.030 -3.70 64.0016NT	
	DATE 06 OCT 75		SCALE .			
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PAGE 93	1 28 JUL 75 .	<	ELV-1L		CABS CABE	.00000 .00120	.00000 .00000	.0000000060	.0000000330	.0000000570	00000 - 00000		.0000000850	.00000 - 00000	.0000001180	.0000001470	000000000770	00000. 00000
	(R1N039)	PARAMETRIC DATA	.000 ELV.		CABO	00090	00110	07100	00170	-, 001 30	.00000	. 00250	. 00250	.00270	.00290	06100.	06000.	00000
			BETA ELV-CR	90/ 5.00	CNBO	00020	00320	0,000,-	-,00040	00030	. 00000	. 20050	. 00060	. 30070	.00070	.00050	.00020	00000
A135	740*+PLUPE			WAL5.00/	평	. 00030	00030	00150	-, 00140	00099	00100	00250	00240	00220	00210	00210	00090	00000
MSFC THT 622 (1A125)	H VEHICLE.			GRADIENT INTERVAL -	Š	.00070	.00350	.00670	.00330	.00240	.00120	. 00690	.00550	.00620	.06450	.00340	.00140	0000
	A1251 LAUNG			5.04 GRA	ដ	00310	00530	01070	00590	00380	00420	01290	01320	01480	01250	01160	00470	2000
TABULATED SOURCE DATA.	MSFC THT 622 (1A)25) LAUNCH VEHICLE, 740T+PLUME		.0000 IN. XT	PN/:	CAF	. 13090	::2790	. :2310	. 12070	11810	. 1.320	.10290	.10020	. 09660	. 09580	05560	.11150	60000
TABULA	355		976	6 / 108 .	ş	03817	059:7	07637	1.0260	11914	13480	15405	:9556	- 23899	28:46	37415	1383C	00000
		E DATA	FT XMBP DES YMPO DES ZMBP	P. N.	ટ	. 18306	97025.	96:92·	.33935	. 38942	25173	4956	.582:8	56779.	.76329	.85+38	. 46381	00000
æ		REFERENCE	2690.0000 3G. 1290.3000 1NC 1290.3000 1NC		ALPIN	10.580	12.550	14.620	16.700	18.770	20.850	22.910	32.000	27.110	29.230	31.210	<b>20</b> 870	CRAD! 4T
DATE 06 OCT 75			SPEF = 26 LAEF + 12 BPREF + 12 SCALE +		HACH	4.450	4.450	4.450	4.450	4.450	4.450	4.450	4.450	4.450	4.450	4.450	4.450	

DATE 06 OCT 75	oct 73		TABULA	TABULATED SOURCE DATA,		HSFC TWT 622 (1A125)	£ 35.			PAGE	ā u
			ASF C	THT 622 (1	MSFC THT 622 (IA125) LAUNCH VEHICLE, 740TS	H VEHICLE,	74015		(PINGAC)		ار کا `
	REFERENCE	ENCE DATA						•	PARAMETRIC DATA	DATA	
SCALE .	2690.0000 \$3. I 1290.3000 INCH 1290.3000 INCH	ED. FT XMRP INCHES YMRP INCHES ZMRP	0.50	TX .NI 0000.000. TY .NI 0000.				BETA ELV-OL	000.	ELV-1L = ELV-1R =	000 ·
		P. NO.	803/ 0	RN/L	5.04 GRA	GRADIENT INTERVAL5.00/ 5.00	VAL5.[	00/ 5.00			
¥	AL PHA	ξ	r,	CAF	5	CYN	85	CNBO	CABC	CABS	CAPE
4.450		19662	06794	. 18080	00580	.00450	00160	00070	00280	00240	.02120
4.450		•	10674	. 19350	00430	.00300	00260	20080	00310	.00410	. 00020
1.450	14.880	•	14425	CECH:	00540	07500.	00260	50390	00370	04800.	00::00
4.450	17.010	.5875+	:7538	1.18053	04400	08000	00220	- 70150	00380	05:00'	-, 30050
4.450	19.130	.68795	- 21391	17900	00300	00C+-0	00269	00090	00362	.00013	. 00060
4.450	21.3:0	.83878	25691	13051.	09740	. 00200	00350	-,00050	v0249	. 00060	02000.
4.450			29! ¿	3:181:	01040	.00.30	00463	00050	00190	.00063	. 30142
4.450		1.04849	34493	. 18163	01710	.00820	00539	20030	00120	00019	.00260
4.450	27.73	1.19150	40'83		01540	. 03559	00370	50000	. 00000	-,00050	. 00080
4.450	29.970	1.3497~	45.593	3521.	01830	61700.	00520	00030	01100.	60083	-, 96143
4.450	32.030	1.46/79	52535	19861.	01900	.03680	-, 60573	. 03050	.00220	00!00	00390
4.450	21.340		252::	0.18040	00690	.50130	00280	00050	- 00240	. 00063	. 090€0
	GRAD LENT	•	. 23388	.00000	00000.	00000.	.0000	00000.	.00000	.00903	. 00000

DATE 66 OCT 75	CT 75		TABUL	TABULATED SCHOCE DATA,		MSFC THT 622 (1A125)	A 253			PAGE	8
			H-SF.	TWT 622 (	MSFC TWT 622 (!A125) LAUNCH VEHICLE, 740TS	4 VEHICLE, 7	74015		(RIN041)	11 ( 29 AL	ر ق
	(363-38	PENCE DATA						O.	PARAMETRIC DATA	DATA	
SREF LAE! SCALE .	5 000,000,000,000,000,000,000,000,000,00	SQ. FT XMRD INCHES YMPP INCHES ZP.P		976.0000 !N XI .0000 !N. YI TX .NI 0000.00H			<b>8</b> សំ ជ	9ETA	000.	ELV-1L =	000.
		RUN NO.	. 812/ 0	PN/L .	5.00 GRAD	GRADIENT INTERVAL =	'AL = -5.00/	5.00			
HACH	AL PHA	ž	E T	CAF	Շ	CAN	<b>16</b> 5	CNBO	CABO	CABS	CABE
4.50	16.750	31949	07101	. 18650	00050	.00120	00090	.00200	.00770	0.600.	9500.
1.450	12.760	39899	1042	18480	00270	.06260	00120	.00200	.00779	.00950	9600.
4.450	14.830	36664·	!4238	8530	00250	.00233	00130	.00500	.00750	08600	9600
4.459	17.010	. 59598	1782!	.18390	00390	. 00130	00150	05100.	.00740	08600.	.000÷
1.450	19.140	. 69951	21.64	.18250	00380	.00160	00230	.00180	.00700	. 00 360	÷600.
4.450	21.290	.81625	260 3	. 18230	61060	.00560	00330	.00180	.00690	04600.	.0093
4.450	23.460	.95005	31419	. 18420	01240	.00580	00350	.00:80	.00690	01600.	.038
4.450	35.620	1.08661	35994	. 18600	01570	.00780	00430	.00100.	. 00700	. 04873	.oces
4.450	27.82)	1.23265	42978	0.18940	06410	.00520	00430	.001BC	. 00690	. 00820	.007
4, 450	30.020	1.3673!	27.494	.19425	02430	01140	006+0	.00170	.00570	. 30800	0000.
4.450	32.080	1.54078	55901	. 1995	02:10	.00870	-, 62540	.00180	. 00680	.00760	. 2062
4.450	21.330	. 82638	2534!	. 18410	00960	.00510	00270	.00180	. 30580	04800.	.0085
	<b>GRADIENT</b>	. 00000	00000	. 00000	00000.	03000.	. 00000	00000.	.00000	. 00000	0000.

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** FEFERENCE DATA  ** ALPLA**				14SF	. THT 622 (	TATES! LAUN	CH VEHICLE,	7076		181NG	.≥1 (29 JAL	ر 25 -
# 1290.3000 19CFES YMPP # 97 7001 IN. XT  # 1290.3000 19CFES YMPP # 000.000 IN. YT  # 1290.3000 19CFES YMPP # 000.000 IN. YT  # 1290.3000 19CFES ZMPP # 000.000 IN. YT  # 1290.3000 19CFES ZMPP # 000.000 IN. YT  # ALPHA CN  100.90  HALPHA CN  100.90  100.9		RFEREN	CE DATA							PARAMETPIC	: DATA	
### CM ### CLM CLM CAF CY CYN CBL CMB0 10080 100.590 1		2690.0000 50. 1290.3000 1% 1290.3000 1%	្នេ		z z ż				BETA ELV-OL ELV-CR	0000	ELV-11 •	000°.
ALPHA         CN         CLM         CAF         CY         CPM         CNBO         CABO           10.590         .18442        03834         .13910        00260         .00180        0070         .00210         .00820           12.550         .23509        05761         .3440        00520         .00320        00910         .00210         .00840           16.700         .3465        07697         .12850        00530         .00110         .00220         .00840           16.700         .3465        07697         .12860        00530         .00110         .00220         .00840           20.890        07697         .12860        02970         .00210         .00220         .00840           20.895        13837         .11800        02550         .00110         .00220         .00840           20.990        1564         .11800        02550         .00110         .00210         .00840           20.920        1944         .11190        0120         .00210         .00210         .00210           20.140        1946         .11190        0120         .00210         .00210         .00210			PUN NO.		PN/L .		IADIENT INTER		è			
10.590         .1894e        03834         .13910        00260         .00070        00210         .00820           12.550        23509        05761         .13440        00520         .00350        00900         .00210         .00840           14.620        23509        09747         .12840        00530         .00110         .00220         .00840           16.700         .34565        09747         .12840        00250        00110         .00220         .00840           20.890         -6599        18937         .11800        00270         .00210         .00840         .00840           20.890         -6599        11840        00270        00110         .00220         .00840         .00840           20.800         -6799        00270        00270         .00840	MACH		3	S. F.	CAF	Շ	Š	훤	CNBO	CA80	CABS	3673
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14.620         28796        07597         .12850        00530         .00110         .00220         .00840           16.700         .34565        09777         .12640        00203        00110         .00220         .00380           18.70         .39565        11527         .12090        00203         .00210         .00220         .00840           20.896         -6159        13831         .11900        00310         .00210         .00210         .00210         .00210           20.897        1384         .1190        0120         .00300         .00210         .00210         .00210         .00210           20.100         .2012         .2012         .2012         .2012         .00210         .00210         .00790           20.200         .2012        0120         .2012         .2012         .2010         .00210	4.450		-23509	05761	3440	00520	.09320	30990	.00210	.03833	00000	0:0:0
16.700 .3456509747 .1264000420 .0035000110 .00220 .00840 .00840 .00210 .2020 .00840 .00210 .00220 .00220 .00840 .00220 .00220 .00220 .00220 .00220 .00230 .00220 .00230	4.450		. 28796	07597	. 12850	90530	.00350	30110	. 00220	.00840	00000	0.670'
18 70         398% 5        11527         .12090        00210        00070         .00220         .00250        00111         .00210         .00830           20 890         46:59        1383:         .11900        00370         .00250        00111         .00210         .00310         .00310         .00310         .00390         .20300         .00390         .00390         .00390         .00310         .00390         .20300         .00310         .00390         .00310         .00310         .00390         .20310         .00310<	4.450		.34565	T+783	. : 2640	03450	.00350	00110	. 03289	.00840	. 30200	33836.
20.990 46159 -113931 11900 -102550 -100111 00210 00210 00810 00810 25.932 25.933 25.023 25.933 11540 -100150 -100150 -100150 00210 0	4.450		39845	11527	. 12090	-,00209	0:500.	00070	. 30220	. 30840	00000.	09,00.
22.933 .51722'5554 .11549CC:5C .30:0000380 .0C2:9 .C0799 .C0799 .25.029 59642:9454 .1119001300 .0099009360 .C.200 .00799 .C.200 .C.	4.450		46:59	1383:	. 11900	008001-	. 00250	21:00:4	.00210	.00830	00000'	.00550
25.020 59642 -:19454 :1190 -:01100 -:00360 -:00360 :0.200 :00790	4.450		.51722	-, · 5555+	0.11640	-,00:50	00100	00080	0.500.	06703.	00000.	. onear
27.140 6797223244 .109530136000313 .00210 .00799 .29.26000313 .00210 .00799 .29.260 .7679500319 .1089001399 .2059300320 .00219 .00810 .20320 .20320 .00219 .00820 .29.24 .23244 .1085000200 .2017000190 .00220 .20320 .20170011920 .20201 .200200 .20170 .20170 .20170 .200200 .200200 .20170 .20170 .200200 .20	4.450		5964	7076: ·	06:11.	0:300	00800.	00360	002.3.	09700.	. 60000	CT800.
29.256 .7578527197 .1080001399 .0059000320 .00219 .00810 .00810 .00810 .00820 .37.240 .8554231244 .1085000900 .0010001190 .00820 .20 880 .4565213944 .1192000250 .001001170 .00210 .00820 .00870 .45654 .11934 .1934 .1934 .11934 .	1 150		57973	23244	.10953	0:360	.00990	00313	. 002:0	. 00799	.00000	01000.
31.24 65542 -3.3544 10850 -0.09500 -0.0950 -4.3554 5.4540 0.9500 0.9500 0.9500 0.9500 0.9500 0.9500 0.9500 0.9500 0.95000 0.95	4.450		.76785	27:97	. 10800	-, 01390	C6930 '	-,00320	.00219	.00810	00000.	. 03380
2890. 01505:1394. :1920025002710. 0150013954. 1980	450		65542	-,3184	. 10853	03800	00:00:	06:00 -	01500.	.00820	00000.	.03223
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MSFC THT 622 (1A125) TABULATED SOUPCE DATA. DATE 06 OCT 75 MSFC THT 522 (1A125) LAUNCH VEHICLE, 74 0TS

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K PARAMETRIC DATA REFERENCE DA7A

ELV-11 • 000 BETA ELV-OL ELV-OR 976.0030 1 1 0000.004 de i 2690.3000 SQ. FT 1290.3000 INCHES 1267.3000 INCHES .00%0

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961A .00000 .00000 .02000 .02000 .02000 .05000 .09000 .05000 ELV-OL - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 ELV-1L
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DATE 96 OCT 75	27 75		TABULATED	*ABULATED SOUPCE DATA,		MSFC THT 622 (1A125)				PAGE	ш
			ME DISM	MSFC THT 522 (18125) LAUNCH VEHICLE, 74 OTS	LAUNCH VEH	CLE, 74 075			(101M;4)	11 CO 40 7	7
	REFEPENCE DATA	<b>.</b>						PAR	PARAMETRIC	DATA	
	2690.0000 SQ FT	d day	97 <b>6</b> .0000	¥ × ×			8 4	8£7A •	666.	ELV-1L •	•
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	u	\$	71,0 4	PN/L . 6.74	GRADIENT	GRADIENT INTERVAL .	-5.00/	5.00			
		#ACH	AL PHA	<b>169</b> 3	చ	ELV-11	ELV-OL	9£1A			
		1.05	-14.300	. 31763	. 48220	30026	92000	05000			
			-11.630	0.016.0	0;664.	92000	92000	03000			
		\$0.7 20.7	-8.900	.01650	. 4.550	92000	92000	02000			
		<b>3</b>	-5.300	.316:0	.47030	92005	92020	01000			
		10.1	-3 720	.01580	.46450	92000	92009	00000.			
		₹ 	-1.193	.01570	05654.	92000	92025	. 21002			
		* 	00m -	.01580	.45330	92000	9200	. 02050			
		3 () .	3.750	.21632	.44739	92303	92000	03000			
		<b>3</b> 5	5 320	.01533	C66£4.	92503	92050	00050.			
		7.0	0.00 0.00	.01630	6+35+.	92000	92000	00000.			
		3 	CE: ::	0:6:0.	D: 784.	92000	32000	00000			
		<b>?</b>	-1.160	.01500	061947	<del>G</del> 2000	CC026	00010.			
			GRAD!ENT	90000.	00232	- , 69633	00000	10+00.			
	u	<b>18 18 18 18 18 18 18</b>	70, 3 4	RN/L ■ 6.98	GRADIENT	GRADIENT INTERVAL .	-5.23/	5.00			
		I ACI	ALPAA	76 <del>,</del> 95	క	ELY- ::	ELV-C_	BE TA			
			-15.050	.01780	. 49320	92000	92020	. 00000			
		1.197	-12 220	טסרופ.	.49870	92009	92000	. 20200			
		. : 97	6:2:0	01590	07684.	92039	92000	00000.			
		191	-6 579	.91620	. 49883	92030	92000	. 01000			
		1.97	-3.690	.01660	. 48550	92000	92000	03020			
		5	502	.01530	C6+84.	92000	-, 92000	03000			
		1.193	C . M	00510.	37774.	92003	- , 92000	. 05000			
			3.820	.01500	. 47260	52503	9200	. 06000			
		1.197	6.453	.01500	.46180	92000	92300	. 06000			
		1.197	610 6	01510.	. 45659	- ,92009	92003	.07000			
		1.:97	0:4:1	.01530	08844.	92000	92339	. 10000			
		1.197	-1.190	01490	.48330	92050	92350	04000			
			CRADIENT	00013	16:20:-	00000.	. 00000	.00*26			

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MSFC 747 622 (18125) LAUNCH VEHICLE, 74 0TS (RIN101) ( 04 .	ATA TIGATANA

BETA003 ELV-IL .			
976.0000 IN. XT	.0000 IN. YT	400.0000 IN. ZT	
ď.	YHRP	ZHZP	
2690.0000 SQ. FT	1290.3000 INCHES	BREF . 1250. 000 INCHES ZHRP . 400.0000 IN. ZT	0%00.
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RUN NO.	135/ 0 R	RN/L = 6.43	GRADIENT	INTERVAL	-5.00/	5.00
MACH	ALPHA	CNB	క	ELV-!L	ELV-OL	BETA
1.466	14.850	04410	01174	92003	92000	
1.466	-12.050	.01400	.45550	92000	-,92000	
1.465	-9.250	. 01330	01654	92000	92000	00010.
3.466	-6.440	.01260	00154.	92030	92000	
994.1	-3.750	.91250	05444	-, 92000	92000	00020.
1.466	-1.090	.01190	01544.	92000	92000	000+0.
1.465	064.:	06110.	0:544	-,92000	92000	.05000
994.1	4.030	.01180	01544.	92000	92000	.07000
1.465	6.583	07110.	066£4.	92000	92000	00080.
1.466	9.160	27110.	.43360	92000	92000	00080.
1.466	11.670	.01190	07754.	92000	92000	.10000
1.466	-1.078	06110.	. 44560	92009	92000	00000.
	GRADIENT	-,00008	61000.4	90000	-,00000	04500.

<b>35 30 30</b> .	160 / 0 RN/L	5.10	GRADIENT	INTERVAL	-5.00/	5.90
MACH	AL PHA	<b>18</b>	ర	EL V-1L	ELV-OL	BETA
2.740	-12.120	.00500	. 35920	92000	92000	01000
2.740	0₹6.6-	.00%70	34990	92000	92000	.00000
2.740	-7.590	.00500	.34280	92000	-,92000	.00000
2.746	-5.290	04500.	.33350	92000	92000	.00000
2.740	-2.980	. 00550	.32650	92000	92005	. 00000
2.740	690	.00550	.32300	92000	92000	. 00000
740	1.570	. 00563	.3189	92000	92000	.01000
2.740	3.830	.00560	.31400	92000	92000	.0100
2.740	6.140	.00570	.30960	92000	92000	.01000
€.740	8.460	.00590	.30543	92000	92000	. 02000
2.740	10.620	.00583	.30:30	92000	92000	.03000
2.740	610	.00560	. 32330	92500	92000	00000.
	GRADIENT	. 00002	00185	00000	90000	.00176

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<b>3</b> 15		000.	. 000		
(RINI02) 1 04 JUN 75	DATA	■ 71-A-3	ELV-IR		
O N N	PARAMETRIC DATA	-5.000 ELV-!L =	000.	000.	
		ALPHA .	£1.v-0L =	ELV-0R -	
MSFC THT 622 (1A125) LAUNCH VEHICLE, 74 OTS		■ 976 0000 lw. x1	.0000 IN. YT	ZMRP - 450.0000 1N. ZT	
	_	Q X	YMA	2 7	
	REFERENCE DATA	2690.0000 SQ. FT XHPP	<b>SYCHES</b>	3000 INCHES	6700
		;; 35	LREF	BREF	SCALE

-5.00/ 5.00	ELV-OL ALPHA	92000 -E.45000	92000 -6.44000	92000 -6.44000	92009 -5.44000	92000 -6.44000	92003 -6.43000	92000 -6.44000	-, 92coc6.45coo	92000 -6.44000	92000 -6.45000	52050 -6.45000	92030 -5 46000	.0000000000.	-5.00/ 5.00	ELV-OL ALPHA	92000 -8.09000	92000 -B.05000	92000 -8.00000	92000 -7.93000	92000 -8.03000	92000 -8.06000	92000 -8.02000	92000 -8.03000	92000 -8.05000	92500 -8.04000	920008.10000	92000 -8.02000	62000 - 00000 -
															•												-		
GRADIENT INTERVAL	5rv-11	92000 92000	00026 05	50 92000	092000	30 - 92000	3092000	. 92303	00025 0/	555555	1092000	00026 2	3092000	19 00001	GGADIENT INTERVAL	71-4-17	3092000	92000	00026 0	0026 0	0028 0	. 92000	00026 01	50 92000	3092000	00026 0	00026 0	30 92003	
	5	. 27980	.28630	. 28530	01682.	. 28693	.28390	. 29220	07,95.	. 29530	. 29333	25555.	.28650	97000.	6.24 GRAD	ð	. 32580	00022.	0+62€.	. 32820	33740	.33870	.33830	33450	.33450	.33740	.33920	.33800	
RN/L = 4.91	1880 1880	05210	.01210	02110.	04110.	01110.	01183	.01230	.01280	.01320	01350	.01+30	.01220	61000.	RN/L = 6.	CNBY	.01540	01490	07410.	.01430	01430	.01463	0.510.	.01660	.01680	.01760	07710.	.01480	90000
131/0 6	BETA	-10.940	-8.880	-5.710	-4.570	-2.450	310	1.819	3.930	6.070	8.230	10.250	310	GRAD1ENT	130/0 8	BETA	-11.900	-9.630	-7.250	-4.920	-2.673	360	1.890	4.200	6.510	9.860	11.080	330	1.12.000
PCN NO.	HOY	.595	.595	. 595	.595	.595	595.	10 M	.595	.595	595	C. 25.	. 595		PCN NO.	HACH	.903	.903	.903	.903	. 903	E08.	.903	.903	. 903	.903	.903	.903	

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MSFC THT 522 (1A125)
TABULATED SOUNCE DATA,
DATE 06 OCT 75

MSFC THT 622 (1A125) LAUNCH VEHICLE, 74 0TS

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(RIN102) ( 04 JUN 75 )

ELV-11 • PARAMETRIC DATA .000 .000 .000 ALPHA -ELV-OL -ELV-OR -

. 60. 00.

GRADIENT INTERVAL . -5.00/ 5.00 RN/L - 6.53 HUN NO. 128/ 0

976.0000 IN. XT 7Y .NI 0000. 400.0000 IN. ZT

2690,0000 SQ, FT 1290,3000 INCHES 1290,3000 INCHES

SCALE .

REFERENCE DATA

BE1A	CNBC	5	11-A-13	ELV-OL	ALPHA
	. 02090	08844	92000	92000	-9.2500(
	06610.	.46200	92000	92000	-9.15000
	.01920	.46870	92000	92000	-9.08000
	.01900	04564	92000	92000	-9.01000
	.01860	.47810	92000	92000	-8.97000
	.01869	.47810	92000	92000	-8.990
	.01960	066L4.	92000	92000	-8.950
	. 02090	01874.	92000	92000	-8.93000
	.02050	.47630	92000	92000	-9.05000
	. 32120	07174.	92000	92000	-9.10000
	. 02150	04594.	92000	92000	-9.17000
	00610.	0.47870	92000	92000	-8.97000
	.00033	.0000	.00000	.00000	.00673

GRADIENT INTERVAL - -5.007 5.00 RN/L . 6.63 RUN NO. 129/ 0

												00096-6- 0	
ELV-O	9200	92000	92000	9200	9200	9200	92000	92030	92000	9200	92000	92000	00000
ELV-1L	92000	92000	92000	92000	92000	92000	92000	92000	92000	92000	92000	92000	.00000
ర	.46180	. 46060	046340	.47950	48400	.48510	.48700	.48650	0.48640	.48510	.48340	.48750	.00038
CNBC	. 02130	. 02080	.02080	.02110	.02910	01930	.01960	01970.	.01950	.02070	.02110	01610.	→0000
ĐETA	-12.790	-10.390	-7.850	-5.333	-2.890	074	€.000	4.450	6.970	9.540	11.920	360	GRADIENT
HACH	1.198	1.198	1.198	1.198	1.198	1.198	96: -1	1.198	1.198	1.198	1.198	1.198	

1 0% JUN 75 1 PARAMETRIC DATA (RIN102) MSFC THT 622 (TA125) LAUNCH VEHICLE, 74 OTS TABULATED SOURCE DATA, MSFC TWT 622 (1A125) REFERENCE DATA DATC 06 OCT 75

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ELV-IL ELV-IR . 300 . 300 . 300 ALPHA • ELV-OL • ELV-OR • 976.0000 IN. XT .0000 IN. YT 400.000.0N. Z 4 4 A 2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES .00%0 SKEF . SHEF . SCALE .

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ALPHA
-9.98000
-9.91000
-9.91000
-9.98000
-9.81000
-9.89000
-9.99000
-9.99000
-9.99000 5.00 ELV-OL . 92000 GRADIENT INTERVAL = -5.00/ CA 45930 45630 46630 46630 46630 46630 46630 46630 46630 46630 46630 46630 46630 46630 46630 R4/L = 6.48 CMBF 01720 0 12.740 -10.340 -7.830 -2.900 -2.900 -2.900 -2.900 -2.900 -3.000 -3.000 -133/ 0 ₹ 8

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						¥	FC THT	622	4.125 €	CALNOH VE	MSFC THT 622 1 A1251 LALWCH VEHICLE, 74 GTS	ńι		(RIN103)	31 ( OH JUN 75	5 5
		HE LEG	RENCE DATA	A7.A									PAR	PARAHETRIC	: DATA	
• 1385	2690	2690 0000				976	976.0000					4 (	ALPHA .	000.		C00.
LAEF BREF SCALE	8 8	290.3000 290.3000 0040	\$ \$ \$ \$	i i	• •	9	. 6660 4 <b>6</b> 0 . 6660	. K				<b>ವ</b> ವ	ELV-08 •	. ceo.	# H	a a o ·
				<b>2</b>		123/ 0	E E	٠ •	4.92	GRADIENI	GRADIENT INTERVAL .	-5.00/	J. 00			
				MACH	X	8	9£1A	8	L.	3	Et. Y-11	ELV-OL	ALPHA			
				-:	598	-	-10.930	<u>.</u>	.01290	.28060	92000	92000	34000			
				•;	£98	4	-8.873	6	01160	.28270	92000	92006	35000			
				•;	598	φ	-6.690	.0	.01062	.29052	92000	92009	35000			
				•;	598	,	-4.55.	õ	01040	.292⁴	92000	92000	35000			
				•:	598	ů	-2.430	6	.01050	.29313	92000	92003	35000			
				•:	596	•	290	50	.01050	.28:50	92000	92000	36000			
				•	599	_	1.823	5	.01083	. 28453	22000	92000	35000			
				•	593	L.)	3.950	ō.	04110	.23020	92303	92000	36000			
				•,	559	ω	6.090	0.	.01230	.29080	92000	63656	36000			
				• ;	<b>298</b>	Φ.	8.25g	6	.01310	. 29090	- 92000	92000	37000			
				•:	559	5	10 280	0.	.01350	.26920	92050	92200	37909			
				•:	598	•	300	0	01050	.28250	92000	92000	36030			
						C. A. S.	GRADIENT	90.	::000	.00083	00000	00000	1+100			
				₹ 8		0 /36.	F84/L	٠.	6.23	GRAD (EN	GRADIENT INTERVAL -	-5.00/	5.00			
				H OA	Ţ.	8	BETA	S S S	L.	ర	Et. v - 1t.	ELV-OL	AL PHA			
				•	906	-	-11.690	06410	764	.33560	92000	92000	63000			
				<b>.</b> ,	906	6-	-9.460	5	.01390	.33880	92000	92030	61000			
				υ,	908	-1	-7.:40	0.	.01293	.33570	92000	92053	58030			
				٠:	906	*	-4.850	10.	. 31250	.33270	92003	92000	57000			
					906	Ġ	-2.600	.01	.01200	. 32430	92000	92000	56000			
				ν:	926.	•	320	<u>.</u>	.01210	.3:570	92000	92000	56030			
				•	906	-	3.943	5	.01310	. 32250	92000	92055	58000			
				•	906	5	4.190	.01	.01390	. 32733	92030	92003	58000			
				•;	906	Ø	6,450	10.	.01470	.33510	92000	92000	60000			
				•:	906	œ	8.750	0	.01560	34180	92000	92000	63000			
				•	906	2	10.920	Ĭ.	.01630	34400	92005	92000	66000			
				•:	906	'	330	10.	01210	.31590	92000	92000	58000			
						GRAD	CRADIENT	. LD017	710	00055	. 00000	.00000	00177			

PAGE 104

ĵυ		990.
(RINID3) C 04 JUN 75	PARAMETRIC DATA	.000 ELV-IL .
	ā	ALPHA = ELV-CL = ELV-OR =
ICLE, 74 OTS		
MSFC THT 622 (1A125) LAUNCH VEHICLE, 74 0TS		77. NI 0000 376. TY TY 10000 0000 1000 1000 1000 1000 10
	<u> </u>	X X X X X X X X X X X X X X X X X X X
	REFERENCE DATA	2690.0000 .C. FT 1290.3000 INCHES 1290.3000 INCHES .00%0
		SPEF L'REF BREF SCALE

5.00	ALPHA	79000	76000	75300	74000	75000	76030	76000	76300	00075	79000	e30co	7+000	002:5	5.00	ALPHA	-1.02000	97000	93000	90309	00006	90000	00006	53000	95000	-, 99000	-1.03000	9:030	0383
-5.00/	ברא-ט	92000	92000	92500	92000	92000	92030	92000	92003	92000	9200	92000	92000	00003	-5.00/	ELV-OL	92000	92000	92000	92000	92000	92000	92000	92000	92000	92000	92000	92000	.00000
ORADIENT INTERVAL .	ELY-11	92003	92000	92000	92000	92000	92000	92000	92003	92000	92000	9207.	92000	₹.00000	GRAD:ENT INTERVAL	11-A-3	92000	92009	92000	92000	92000	92000	92000	92000	92000	92000	92009	-,92000	. 00000
GRADIENT	3	. 46730	.47270	.47360	.47:30	.47193	01594.	26047	0114.	.47600	01774.	<b>∁</b> ₿∜८₹	.46370	.00022	GRAD: ENT	3	C8784.	0906h.	02064.	.48850	00584.	.48210	09064	05164.	067 <b>64</b>	04864.	. 49280	.48370	.00102
RN/L = 5.5	CNBE	.01723	.01590	.01530	.01510	.01500	.01500	0.4810.	.01630	01710.	017:0.	.9:820	.31530	€1000.	رد • 6.64	CNBF	019:0.	.01510.	.01560	.01520	.9.520	.01500	.01590	.01590	. 01580	01710.	.01730	.01520	£1000.
120 0 AN	BE 7.A	-12.070	-9.760	-7,340	376 4-	-2.650	0 M -		¥. ₹93	<b>6</b> .640		11.293	e e e e e e e e e e e e e e e e e e e	GRAD, ENT	121/ 0 PN/L	<b>9E14</b>	-12.350	-9.940	17,450	-5.340	-2.593	300	Z.013	4 360	6.780	9.220	11.570	360	CRADIENT
AGN NO.	HACH	₹6.:	1.00.1	\$ C.	₹00°-	1.054	1.054	<b>小</b>		\$100. 	- 0 T	100 ·	100°		PGN NO.	MACH	1.199	1.199	. 199	1.199	1.199	1.199	1.199	1.199	66 : 1 66 : 1	1.199	. 199	1.199	

(RIN103) ( 04 JUN 75 PAGE ELV-11 = ELV-18 = PARAMETRIC DATA 000 ALPHA
-1.01000
-.97000
-.93000
-.970000
-.96000
-.95000
-.91000
-.94000
-.95000
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-.95000 ALPHA ... ELV-OL ... 5.00 . 92000 . 92000 . 92000 . 92000 . 92000 . 92000 . 92000 . 92000 -5.00/ MSFC THT 622 (IA125) LAUNCH VEHICLE, 74 0TS GRADIENT INTERVAL . MSFC TWT 622 (1A125) - 92000 - 9200 CA .45120 .45320 .45320 .445320 .44540 .45420 .45420 .45460 .45560 .45760 ABULATED SOURCE DATA. RN/L = 5.42 .01480 .01480 .01360 .01370 .01300 .01280 .01280 .01380 976.0000 IN. XT .0000 IN. YT 400.0000 IN. ZT 967A -12.380 -7.550 -7.550 -5.100 -2.10 -3.00 6.820 9.390 11.570 -7.20 GRADIENT 134/ 3 1,588 ₹ 8 0 0 1 N REFERENCE DATA - 1290.3600 50 FT - 1290.3600 !WCHES - 1290 3005 !WCHES - 1290 3005 !WCHES DATE 06 OCT 75 SKEF . LPEF . BREF .

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ALPHA
- 66000
- 65000
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- 64000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 -,92000 .00000 ELV-OL -.92000 -.92000 -5.00/ - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 C":DIENT INTERVAL CA 33020 32900 32900 32450 32350 32350 32390 32540 33190 33190 33260 33260 5.08 .00590 .00590 .00600 .00580 .00580 .00580 .00590 .00590 Š -8.990 -6.720 -6.720 -7.250 -7.050 -7.00 -161/0 2 2 2

-.92000

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(1A125)
HSFC THT 622 (1A125)
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TABULATED SOURCE DATA,
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ħ.	TABULATED SOURCE DATA, MSFC THT 622 (1A125)	PAGE	PAGE :06
	MSFC THT 622 (14:25) LAUNCH VEHICLE, 74 OTS	(RINIGH) ( DY JUN 75 )	ξ.
REFERENCE DATA		PARAHETRIC DATA	
390.0000 SQ. FT XMRP = 976.0000 W. XT	 * 976.0000 W. XT	ALPHA - 5.000 ELV-IL - ELV-OL000 ELV-IR -	000.

ij	2690.0000 50.	٠ د	Đ.	976.0000 :N. XT	ALPHA .	5.000	ELV-IL .	90
14.5	1290, 3000 "NCF	. 53	ą.	TY .WI COOD.	ELV-OL .	200.	ELV-18 -	000
PEF	1290,3000 INCH	£5 3	Q.	BARF = 1290.3000 !NCHES ZHAP = 400.0000 IN. ZT	ELV-0R =	000		
SCALE .	0.400							

GRADIENT INTERVAL . -5.00/ 5.00

ALPHA	5.72000	5.73000	5.74000	5.72000	5.72000	5.71000	5.73000	5.73000	5.73000	5.74000	5.72000	5.73000	.00141
ELV-OL	92000	92000	92000	92000	92000	92000	92000	92000	92000	92030	92030	92000	00000
ELV-1L	92000	92000	92000	92000	92030	92000	92000	92030	92000	92030	92000	92000	-,0000
ర	.23320	.22760	.23040	.23090	.23370	.23160	.23530	. 2384J	.23570	0.535.	. 23230	.23240	82000.
CMBF	00410.	.01270	07110.	.01030	.01000	0:660	.00960	.01080	0:110	01310	.01360	07600.	.0000.
BETA	-10.890	-8.830	-6.650	976	-2.400	0.5	1.840	3.963	6.120	8.250	19.270	- 273	GRADIEN*
<b>₩</b>	.596	596	965	596	595	596	595	. 55 <b>6</b>	.596	555	.535	. 595	

CNGF         CA         ELV-1L         ELV-0L         ALPHA           .01570         .30560        92000        92000         6.3000           .01450         .30930        92000        92000         6.42000           .01310         .30690        92000        92000         6.42000           .01270         .30400        92000        92000         6.4300           .01270         .30400        92000         6.4300           .01280         .92800        92000         6.4200           .01200         .29200        92000         6.4200           .01200         .29200        92000         6.4200           .01200         .29200        9200         6.4200           .0130         .30570        9200         6.4200           .01430         .30670        9200        9200         6.4000           .01430         .30670        9200        9200         6.4000           .01430         .29200        92000         6.41000           .01190         .29200        92000         6.41000	0 /52	Ě	RN/L . 6.25	GRAD!ENT	INTERVAL .	-5.00/	5.00
.305609200092000 .309309200092000 .305939200092000 .304009200092000 .292609200092000 .295909200092000 .305709200092000 .305709200092000 .305709200092000 .305709200092000		Ü	<b>b</b>	5	ELV-!L	ELV-0L	ALPHA
.309309200092000 .305939200092000 .304039200392000 .301109200392000 .292839200092000 .305709200092000 .305709200092000 .305709200092000 .305709200092000 .305709200092000	-11.710		.91570	.30560	92000	92000	6.38000
.305909200092000 .304009200092000 .301109200092000 .292809200092000 .305709200092000 .305709200092000 .305709200092000 .305709200092000 .305709200092000	0. 0.34.6-	٥.	.01450	.30930	92000	92000	6.42000
.304009200092000 .301109200092000 .292809200092000 .305709200092000 .305809200092000 .305709200092000 .305709200092000 .292809200092000		õ	310	.32693	92000	92000	6.43000
. 30110 - 9200	10. 008.4-	5	273	.30405	-, 92000	92000	6.43000
. 29269.		.01	550	01102	-, 92050	92000	6.43000
.30599250092000 .305992000 .305992500 .305092500 .3057092500 .3087092500 .925992500 .9250092500		6	96	. 29280	92000	92000	6.42000
.305709200002000	510. 078.1	.018	90	.29530	92500	92030	6.43000
.305992000 .30570920092000 .308709200092000 .292809200092000	4.220 .018	.012	ŠČ	.30070	92000	92000	6.42005
.30670920092000 .30870920092000 .2928090009200000000		.013	D 2	. 30680	92000	92300	6.44000
.308709250392000 .292809250392000 00000 50000		ž.	30	.30670	92000	92000	5.41000
. 29280 92000 00000 00000	11.0%0 .01530	. 915	30	.30870	92009	92000	6.40030
000520000000000	06110. 075 -	<u>.</u>	90	. 29280	92000	92000	6.41000
	GRAD1ENT 20003	- 30	503	00052	00000	00000	00089

TABULATED SOUPCE DATA, MSFC THT 622 (1A125)

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(日本のでは、日本の大人は国内ではずる大阪にこればと思るとのはないできるが新います。 がないまでいる。 いっしょうこと

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MSFC TWT 622 (14:25) LAUNCH VEHICLE, 74 015

PAGE 107

(RINIDA) CON JUN 75

ELV-!L = PARAMETRIC DATA 5,000 ALPHA . ELV-OL . ELV-OR .

000

GRADIENT INTERVAL . -5.007 5.00 5.50 PN/L . PUN NO. 127/ 1

976.0000 1№ XT 7Y .№ 2000 78. № 27

SAEF = 2690.0000 53. FT LAEF = 1290 3000 INCHES BAEF = 1290.3000 INCHES SCALE = .0090

REFERENCE DATA

DATE 36 OCT 75

	_		.92000 6.7:000	92000 6.70000			00085.				92000 6 74000		5+000. 000cg
			•	•							92000		
5	.42420	. +3050	.43240	.43240	.43000	0.454.	.42800	.43220	.43280	.43350	. 42953	07354.	- 00011
CMB	.01850	. 51790	.01750	.01730	.01720	. 31590	.01620	.01670	.01800	.0:870	.01860	01910	01300
BE TA	-12.020	-9.710	-7.390	-4.953	-2.620	270	2 213	4.320	6.659	9.553	11.325	270	COADIENT
MACH	1.047	047	1,047	7.0.1	1.047	1.047	1.047	1.047	1.047	1.047	1.047	1.947	

5.880v3 5.00 GRADIENT INTERVAL = -5.007 9.0 FN/L . 1967 19 PLIN NO.

1. -17 - . -92000 - . -92000 - . -92000 - . -92000 - . -92000 - . -92000 - . -92000 - . -92000 - . -92000 CNBT 0.01950 0.01810 0.01810 0.01810 0.01810 0.01810 0.01810 0.01810 0.01810 0.01800 0.01800 9674 -12.280 -9.910 -7.430 -5.010 -2.640 -2.050 -2.050 -2.050 -2.050 -2.050 -2.050 -2.050 -2.050 -2.050 -2.050 -3. 

6.89000 6.86000 6.87000 6.87000 6.88000 6.88000 6.95000 6.95000 6.95000 6.95000

1. 92000 1. 920000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 920000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 920000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 920000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 920000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 92000 1. 9200

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TABULATED SOURCE DATA, MSFC THT 622 (1A125)	
DATE 06 OCT 75	

DATE 96 OCT	90	K 13			TABULATED SOUNCE DATA, MSFC THE B22 (14125)			PAG	PAGE 138
					MSFC THT 622 (1A125) LAUNCH VEHICLE, 74 OTS		318	(RINIO) ( 04 JUN 75	
		REFERENCE DATA	*			_	PARAMETRIC DATA	S DATA	
338	•	2690.0000 SO. FT	d MA	•	976.0000 14. XT	ALPHA .	5.000	• II -> 13	000
1967		LAEF . 1250.3000 INCHES YMAP	d dwi	•	. 0000 . V. AT	ELV-0-	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	ELV-18 =	020
130E	•	1290.3000 INCHES	acm2	•	400:0000 1V. Z1	£LV-08	600	<u>.</u>	•
9 74 75		0100							

### CABT CABT CA ELV-IL ELV-OL - 12:395			מאיני פייט	SANOTEN.	CARDIENT INTERVAL # 10 007 5.00	9	90.0	
-12.395 .01620 .4125092000	_	9ETA	CNBC	5	EL V-11	ELV-OL	ALPHA	
-9.993 .01530 .we66092000 -	192	-12.390	.01620	055	92000	92000	7.02000	
-7 500 .01440 .4355092000 -	ဖွ	-9.993	.01530	. 42060	92000	92000	7.03090	
-3.070 .01355	ያ	-7 500	0.440	.43050	92000	92000	7.01000	
-2 690129025509200	ķ	-5.070	.01353	262.5	98000	92000	6.99000	
2.09C - 21180	မွှ	259 2-	3821v.	3250	92000	92000	5.99000	
8.09C . 10185 43095 - 9200C - 9200C 6 9200C 0 10185 43.45 - 320C0 - 9200C 0 10185 43.75 - 320C0 - 920C0 0 10185 43.75 - 320C0 - 920C0 0 10185 42.710 - 920C0 - 920C0 0 10185 42.710 - 920C0 - 920C0 0 10185 43.05 - 920C0 - 920C0 - 920CC - 920CC	မ္မ	875	G:	03624	92000	92000	6.99000	
6 909 - 00359.	S.	2.38€	58::5	43080	92000	- 92000	7.01660	
6 909 6 909 - 01554	ģ	() (,	.01273	18740	92000	92000	7.03000	
0.059 0.059 0.1534 0.3510 0.35 8 0.0000 0.3510 0.3510 0.3510 0.35111 0.35111 0.351111 0.351111 0.351111 0.351111 0.351111 0.3511111 0.3511111 0.3511111 0.3511111 0.3511111 0.35111111111111111111111111111111111111	ယ္က	65 9	.21353	. 433-53	92000	92039	7.06000	
00059.1 00059.	က္က	385 g	01463	0:427	92050	92000	7.08000	
00059.1 00059.1 00054 08117. 085.1 00009.1 00000.1 40000.	ဖွ	11.730	.0:532	. 42293	92000	92000	7. <b>c</b> 80co	
10000 -	ιņ	062°-	CG	<b>43003</b>	92000	92000	2,0300	
		CBADIENT	10000	*0000°	00000	-, 33902	.007:3	

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(RIN105) ( 04 JON 75 ) MSFC TWT 622 (1A125) LAUNCH VEHICLE, 74 OTS TABULATED SOURCE DATA, MSFC THT 622 (1A125)

PARAMETRIC DATA

ELV-1L • ELV-1R • BETA ... ELV-OL ... ELV-OR ... 976.0000 IN. XT .0000 IN. YT 400.0000 IN. ZT

X # 80 2 # 80

SAEF = 2690.0000 SQ. FT LREF = 1290.3000 INCHES BREF = 1290.3000 INCHES SCALE = .0040

REFERENCE DATA

900.

GRADIENT INTERVAL - -5.00/ 5.00 75/ 0 RN/L - 5.15 PUN NO.

3	AH PHA	5	2	- N	6-A-3	BE TA
8	-11.710	01260	01465	-, 92000	-3.67009	.00000
292	-9.580	.01250	. 29350	92000	-3.67000	. 00000
593	-7.320	.01240	.29170	92000	-3.67000	.00000
595	-5.160	06110.	. 29120	92000	-3.67000	.00000
595	-2.940	.01150	. 29000	92000	-3.67000	00000.
595	700	.01150	01782.	92030	-3.67000	.01000
595	1.460	.01090	. 28200	92000	-3.67000	.0100
595	3.690	06010.	00575.	92000	-3.67000	.02000
595	J. 0.40	010.	.26270	92000	-3.67000	.02000
595	8.180	.01030	. 25290	92000	-3.67000	.03000
595	10.230	. 91999	. 23860	92000	-3.67000	04000
595	710	.01130	.28760	92000	-3.67000	.01000
	GRADIENT	-, 0001	00227	00000	00000	. 00273

GRADIENT INTERVAL - -5.007 5.00 RN/L . 6.51 è SE NO

BETA	00000.	00000.	.01000	. 02000	.03000	00040.	.05000	.07000	. 08000	00060.	.11000	.05000	. 00540
£LV-0L	-3.67000	-3.67000	-3.67000	-3.67000	-3.67000	-3.67000	-3.67000	-3.67000	-3.67000	-3.67000	-3.67000	-3.67000	00000.
ELV-1L	92000	92000	92000	92000	92000	92000	92000	92000	92000	92000	92000	92000	00000
5	.34620	34490	.3+050	. 33;20	. 32330	. 32390	.3:820	.31060	.31220	.31110	.29920	. 32330	00182
CV85	.01550	.01500	.01450	.01370	.01310	.01332	.01280	.01230	.01270	.0.230	.0123	.01280	00012
ALPHA	-13.310	-10.870	-8.360	-5.870	-3.4:0	980	014.1	3.810	6.260	8.720	10.950	0.970	ORADIENT
HACH	106.	106	106	106.	106.	106	106.	106.	.901	106.	106.	106.	

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DATE 06 OCT 75

DATE 06 OCT 75		TABULATED S	TABULATED SOUNCE DATA, MSFC THT 622 (1A125)	MSFC THE E	522 (IA125	_			30 v c	w
		MSFC THT	MSFC THE 622 (18125) LAUNCH VEHICLE, 74 OTS	LAUNCH VEH	ICLE, 74 0	2		(801718)	1	7
REFERENCE DATA	4						PAR	PARAMETRIC DATA	DATA	
SREF = 2690.0000 SO. FT LREF = 1290.3000 INCHES BREF = 1290.3000 INCHES SCALE = .0000	XHB0	TX .VI C000.872 TY .VI C000.	* * * * * * * * * * * * * * * * * * *			8ETA ELV-0 ELV-0	* * *	. 000 . 5. 000 . 000	ELV-1L # ELV-1R #	
	<b>B B</b>	72, C RN/	RN/L . 6.77	GRADIENT	GRADIENT INTERVAL .	-5.00/	<b>5</b> .00			
	2	440	Je S	5	ELV-!L	ELV-0L	BETA			
	1050	-14.370	01750	.48460	92000	-3.67000	05000			
	1.052	-11.660	01710.	.48380	92000	-3.67000	03000			
	1.052	-6.950	.01600	.47750	92000	-3.67000	02000			
	1.052	-6.350	.01560	.47063	92000	-3.67900	00000.			
	1.052	-3.760	.01520	.46570	92000	-3.67900	00000.			
	1.052	-1.2:0	01510.	.46220	92000	-3.67000	.01020			
	1.052	1.270	.01510	.45590	92000	-3.57050	.01000			
	1.252	3.740	.01580	C9644.	92000	-3.67000	. 02090			
	1.052	6.310	.01520	.44330	92000	-3.67000	00040.			
	555.1	348.8 348.8	.01630	CE+E+.	-,92000	-3.67022	00090.			
	900	11.130	.01530	04424.	92000	-3.67000	cess.			
	י ניי	-1.179	00100	.46270	9200	-3.67503	000:0.			
		GRADIENT	.00007	00218	.00000	00000	. 30243			
	<b>5</b>	73/ 0 RN	RN/L . 6.92	GRADIEN	GRADIENT INTERVAL	-5.00/	5.00			
	YAN Y	AH PHA	CNBF	ర	ELV-IL	ELV-OL	BETÀ			
	- 202	-15.970	.01780	.48350	92000	-3.67900	. 90000			
	1.202	-12.230	.01630	.49330	92000	-3.6700C	. 00000			
	1.202	-9.360	.01500	0.0684.	92000	-3.67000	. 0100			
	1.202	-6.630	.01570	.48610	92000	-3.67000	. 02000			
	1.202	-3.900	.01560	.48420	92000	-3.67099	. 03000			
	1.202	-1.250	00510	. 48280	92000	-3.67000	03080.			
	1.202	1.310	08*10.	.47610	-, 92000	-3.67009	.04000			
	1.202	3.830	.01480	. 47050	92000	-3.67000	. 25000			
	1.202	٦٠.4	.01500	.46330	92000	-3.67000	.07300			
	1.202	8.980	.01510.	.45320	92000	-3.E7000	00080.			
	1.202	11: 390	.01500	.44250	92000	-3.67000	00001			
	1.202	36 TF	01510.	.48470	92000	-3.67000	000+0			
		GRAD 12 %.	00010	₹8100°+	00000	. 2003	98600.			

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DATE 06 OCT 75		TABULATED S	TABULATED SOURCE DATA.		HSFC THT 622 (1A125)				PAGE	=======================================
		MSFC TWT	MSFC TWT 622 (IA125) LAUNCH VEH;CLE, 74 OTS	LAUNCH VEH	CLE. 74 01	ē		(RIN105)	ASS 40 3 C	ž Č
REFERENCE DATA	<						PAR	PARAMETRIC DATA	DATA	
. 2690 . 1290 . 1291	XHRP .	976.0000 IN. .0000 IN.	IN. XT IN. XT IN. ZT			BETA ELV-OL ELV-OR	~ %	.000	ELV-1L • ELV-1R •	000
SCALE	<b>15</b> 86	136/ 0 PN	RN/L = 6.45	GRADIENT	GRADIENT INTERVAL	-5.00/	5.00			
	¥	ALPHA	CNBC	5	ELV-IL	ELV-OL	BE TA			
	1.46	-14.880	.01430	.47240	92000	-3.67000	00000			
	.46	-12.090	. 01380	. 46480	92000	-3.67000	.01000			
	461	-9.240	.01320	. 45883	92000	-3.67000	.0100			
	1.46	-6.470	.01270	. 45150 645130	92000	.3.67000	00040.			
		-3.790	.01190	05077	92000	-3.67000	02050.			
	1.461	064.1	.01190	370	92000	-3.67000	.05000			
	1.461	4.020	.01180	.44230	92000	-3.67000	.07000			
	1.461	6.570	.01160	.43950	92009	-3.67000	.07000			
	1.461	9.150	.01160	.43250	92300	-3.67000	.08000			
	1.461	11.660	.01200	.42690	92000	-3.67000	.:0000			
	1.461	-1.040	06110.	02444.	92000	-3.67000	.05000			
		GRADIENT	00006	00035	00000	00000	. 00538			
œ	PEN NO.	159/ 0 RN	RN/1 5.10	GRADIENT	GRADIENT INTERVAL	-5.00/	5.00			
	MACH	ALPHA	CNBF	ర	ELV-1L	ELV-OL	BETA			
	2.740	-12.150	.00510	.35850	92000	-3.67000	. 00000			
	2.7t0	-9.950	08400.	.35090	92000	-3.67000	.00000			
	2.740	-7.600	. 00500	.34250	92000	-3.67000	. 00000			
	2.740	-5.270	04500.	.33+00	92000	-3.67000	. 00000			
	2.740	-2.980	. 00550	.32720	92000	-3.67000	. 00000			
	2.740	690	. 00550	. 32240	92000	-3.67000	. 00000			
	2.740	1.560	. 00560	.31900	92000	-3.67000	. 00000			
	٠. ک	3.820	.00570	.31440	92000	-3.67000	.01000			
	۶. ح ک	6.120	.00570	. 30880	92000	-3.67000	.01000			
	2.740	8.430	. 00590	. 30530	92000	-3.67000	.02000			
	2.740	10.620	. 00580	30140	92000	-3.67000	.03000			
	2.740	640	.00560	. 32330	92000	-3.67000	. 00000			
		GRADIENT	.00003	03185	00000	00000	. 00132			

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PAGE 112	JN 75 :	
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	(RINIDS) ( 04 JUN 75 )	PARAMETRIC DATA
C THT 622 (1A125)	KCH VEHICLE, 74 07S	
TABULATES SOUNCE DATA, MSFC THT 622 (14125)	MSFC THT E22 (14125) LAUNCH VEHICLE, 74 075	
δ		REFERENCE DATA

. BOC	: <b>00</b> :																	
ELV-!L .	ELV-!R .																	
000.	5.000	000.																
BETA =	٠ م	• %0-		5.00	BE 7.A	.00000	.00000	00000	00000.	.0100	.02000	.03000	.03000	.03000	000+0.	000+0.	.01000	.00316
136	ELV	ELV		-5.00/	ELV-OL	4.50000	4.50000	4.50000	4.50002	4.50000	4.53000	4.50000	4,50000	4.50000	4.52020	4.53000	4.50000	-,00000
				GRADIENT INTERVAL .	£LV-1L	92000	92000	92005	92000	92000	92000	92000	52000	52000	92000	92303	- 92300	00000
				GRADIENT	3	. 29650	. 29520	. 29210	.29180	.29000	.28720	.27960	.27360	.26330	.2514c	.23950	.28550	00256
IN. XT	14. YT	N. ZT		. 5.18	CNBC	.01280	.01260	.01230	06110.	08,10	64110.	.01100	011:0	.01080	04010.	.01050	07110.	00011
976.0000 1		₩00.0000		76/ 0 PN/L	AL PHA	-:1.690	-9.550	-7.303	-5.140	-2.920	690	1.490	3.730	5.583	8.240	10.290	680	GRADIENT
• distix	YMAGO	ZMRP =		RUN NO.	HACH.	599	. 599	. 599	.599	599	.599	. 599	.599	00°0°	. 599	. 599	. 599	
2690.0000	.REF = 1290.3000 1NCHES	BREF * 1290.3000 INCHES	SCALE															

PUN NO.	77/ 0 RP	RN/L . 6.56	GRADIENT	GRADIENT INTERVAL .	-5.00/	5.00
HQH.	AL PHA	CNBF	Š	£LY-!L	ELV-OL	BETA
<b>₹</b> 06.	-13.320	.01580	. 35260	92000	4.50000	.01000
6	-10.860	.01510	.34950	92000	4.50000	00000
66	-8.300	05+10.	CHANE.	92000	4.50000	.02000
400	-5.823	.01350	.33200	92000	4.50000	02000
406	-3.350	.01350	.32940	000260-	4.50000	00040.
£06.	920	.0:250	. 32330	92003	. 50000	.05000
90	1.460	.01290	.31700	92000	4.50000	.05000
406	3.850	.01270	.31240	92003	4.53000	.07000
<b>106</b>	6.320	.01270	.31220	92353	4.50000	.08000
<b>106</b>	8.770	.01240	.31	9200	4.50000	.08000
\$00°	11.000	.01260	.30330	-,92002	4.52000	00060.
,90¢	920	.01310	.32340	92000	4.50000	00040.
	GRADIENT	00008	00225	00000	. 00000	.00375

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DATE 06 OCT 75		TABLEATED	TABLE ATED SOURCE DATA.		MSFC TWT 622 (1A125)				PAGE	113
		HSFC THT	MSFC THT 622 (18125) LAUNCH VEHICLE, 74 OTS	LAUNCH VEH	1CLE, 74 OT			(RIN106)	6) ( 04 JUN 75	, 15
REFERENCE DATA	<u> </u>						PAG	PARAMETRIC DATA	DATA	
2690.0000	e de X	976.0000 1N.	IN. XT			AT38	9ETA .	000.	ELV-11 =	900.
LAEF = 1290.3000 INCHES BREF = 1290.3000 INCHES SCALE = .0040	do Z	0000 . 004	<u>x x</u> z z			נר <b>ל</b>		000.		
-	RUN NO.	79/ 0 RN	RN/L = 6.82	GRADIENT	GRADIENT INTERVAL -	-5.00/	5.00			
	MACH	ALPHA	CNBF	క	ELV-11	ELV-OL	BETA			
	1.048	-14.200	.0:700	.47390	92000	4.50000	05000			
	1.048	-11.560	.01630	.47710	92000	4.50000	03000			
	ص م م م	-8.850 -6.360	.01560	.47230	92000	. 50000	00020 -			
	0 70	13.590	08710	.46080	92000	4.50000	.0000			
	9.0	-1.110	01210	.45670	92000	4.50000	.02000			
	1.048	1.320	.01550	.45160	92000	4.50000	. 02000			
	.048	3.790	.01630	02544.	92000	4.50000	00000.			
	 940.	6.360	.01550	.43740	. 92000	4.50000	00000			
	1.048	8.880	.01550	01624	92003	4.50000	. 05000			
	1.048	11.150	05510.	.42050	92000	4.50030	. 08000			
	1.048	-1.10	.01550	0:754.	92000	4.50000	.0100			
		GRAD! ENT	9:000.	50209	00000.	-,00000	.00364			
-	PCN NO.	78/ 0 AN	RN/L - 7.00	GRADIENT	GRADIENT INTERVAL .	-5.00/	5.00			
	HACH	ALPHA	SNO CNB	క	ברא-ור	ברא-סר	BETA			
	1.199	-15.000	.01840	00684	92000	4.50000	00000			
	-: -: -:	-12.190	.01720	.49820	92000	4.50000	00000			
	66 :	-9.300	.01630	. 49360	92000	4.50000	00010.			
	3 8	-1 879	06510	05054	-,92000	4.50000	03000			
	1.199	-1.180	.01530	.48750	92000	4.50000	00040			
	1.199	1.330	.01500	.47950	92000	4.50000	. 05000			
	1.199	3.840	.01500	04564.	92000	4.50000	.06000			
	1.199	6.480	.01520	. 46660	92000	4.50000	.07000			
	<u>~</u>	9.020	.01550	. 45670	92000	4.50000	00000			
	1.199	11.420	.01530	04544.	92000	4.50000	10000			
	<u>.</u>	-1.150	.01530	.48730	92000	4.50000	00040			
		GRAD1ENT	00012	00221	.00000	. 00000	06200.			

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DATE 06	DATE 06 OCT 75		TABULATED S	TABULATED SOURCE DATA.		MSFC TWT 622 (1A125)				39¥d	3:1
			MSFC TWT	MSFC THT 622 (JA125) LAUNCH VEHICLE.	LAUNCH VEH!	CLE. 74 015	40		(R:N105)	NO 10 19	ξ. -
	REFERENCE DATA	₹						M	PARAMETRIC DATA	DATA	
SCALE -	2690.0000 SQ. F7 1290.3000 INCHES 1290.3000 INCHES	db#1Z	976.0000 .0000 400.0000	X X X X X X X X X X X X X X X X X X X			BETA ELV-(	BETA ELV-OL ELV-OR	. 900 <b></b> 93. 000 93. 000	ELV-1L =	000.
	•	PCN NO.	137/ 0 AN/L	1. 6.42	GRADIENT	GRADIENT INTERVAL .	-5.00/	5.00			
		HOW	AL PHA	S S S S S S S S S S S S S S S S S S S	Ç	ELV-11	ELV-OL	BETA			
		9	-14.850	.01450	.46900	92000	4.50000	. 00000			
		- <del>1</del> 94.	-12.070	06210.	. 45530	92000	4.50000	.0100			
		1.464	-9.230	01340	.46080	92000	4.50000	.02000			
		1.464	-6.450	.01285	.45320	92000	4.50000	0400			
		197.	-3.760	.01260	.44730	92000	4.50000	00000			
		1.454	-1.100	.01210	.44660	92000	4,50000	.05000			
		194.	1.500	.01210	.44550	92050	4.50000	. 06000			
		1.464	4.030	06110.	.4+570	92000	4.50000	.07000			
		1.464	6.580	07110.	022 <b>11</b>	92000	4.50000	. 08000			
		104	9.163	07110.	.43550	92050	4.50000	00060.			
		1.464	11.660	06110.	05654.	92006	4.50000	. 11000			
		1.464	-1.040	.01210	ראא.	92000	4.50000	.05000			
			GRADIENT	€.00008	003:9	. 20000	00000	. 00385			
	-	RUN NO.	158/ 0 RN	RN/L = 5.10	GRADIENT	GRADIENT INTERVAL =	-5.00/	5.00			
		HOAM	ALPHA	Jeno	ð	ELV-1L	EL V-0L	BETA			
		2.740	٠	. 00540	.35990	92000	4.50000	00000			
		2.740	-9.940	06400.	.35130	92300	4.50000	.00000			
		2.70	-7.590	.00510	.34350	92000	4.50000	00000			
		2.740	-5.290	0.005	.33470	92000	4.50000	. 00000			
		2.740		. 00550	.32720	92330	4.50000	00000			
		2.70	680	. 00559	.32370	92000	4.50000	.01000			
		2.740	1.570	.00560	31916.	92000	4.50000	.0100			
		2.740	3.86	. 00560	31490	~.92030	4.50000	00010			
		2.740	6 120	.00570	.31030	92000	. 50000	00019.			
		2.740	8.440	.00590	.30660	92000	¥.50000	.02000			
		2.740	_	.00580	.30290	92000	4.50000	03000			
		2.740		. 00550	.32370	92000	4.50000	.00000			
			GRADIENT	20000.	-,00163	00000	00000.	.00133			

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DATE 06 OCT 75		TABULATE	TABULATED SOURCE DATA.		MSFC TWT 622 (1A125)	<b>a</b>		a.	PAGE 115
		HSFC 1	HSFC THT 622 (TATES) LAUNCH VEHICLE, 74 OTS	LAUNCH VE	וכנב. אי נ	215	(8)	(RINID7) ( 04 JUN	. 27 NJ
REFERENCE DATA	Ā						PARAMETRIC DATA	RIC DATA	
• 2690 • 1790 • 1790	X 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	976.000	976.0000 IN. XT .0000 IN. YT 400.0000 IN. ZT			867A 61V-(	BETA000 ELV-OL . 10.003 ELV-OR	ELV-1L *	000.
SCALE	گر 50	83/0	RN/L - 5.19		GRADIENT INTERVAL	-5.00/	5.00		
	HYCH	ALPHA	CNBF	ర	ELV-1L	ELV-OL	B£TA		
	88.	-11.660	05210.	29450	92000	10.80000	01000		
	595.	-9.530		39340	92000	10.80000	01000		
		-7.300		.29370	92000	10.80000	01000		
	66. 66.	- <b>J</b>		. 29160	92000	10.80000	00000		
	, 10 C 10 C 10	0.8.5	00110	. 28670	00026	10.80000	00010.		
	595	1.520		.28140	92000	10.80000	00019		
	.595	3.740		02462	92000	10.80000	.02000		
	56.	5.990	05010. 0	.26350	92000	10.80000	.03000		
	.595	8.230		.25100	92000	10.80000	.03000		
	.595	10.290		. 23590	92000	10.80000	.0400		
	. 595	680		. 28730	92000	10.80000	.01000		
		GRADIENT	60012	00≥34	00000	.00000	.00135		
	PUN NO.	<b>85</b> / 0	RN/L . 6.58	GRADIENT	GRADIENT INTERVAL	-5.00/	5.00		
	MACH	ALPHA	CNBF	క	ELV-1L	ELV-OL	BETA		
	906	-13.310		.35420	92000	10.80000	00000.		
	906	-10.840		.35200	92000	10.80000	.00000		
	906	-8.320		.34710	92000	10.80000	00010.		
	906	-5.810		.33310	. 92000	10.80000	.05000		
	906	-3.370		. 32690	92000	13.80000	. 03000		
	906	056		. 32390	- 92000	10.80000	00000		
	906.	1.460		.31950	92000	10.80000	.05000		
	906	3.850		.31400	92000	10.80000	.07000		
	906	6.290		.31620	-, 92000	10.80000	.07000		
	906	8.740		.31660	92000	10.80000	00060		
		GRADIENT	B0000	00178	00000.	.0000	86+00.		

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TABULATED SOURCE DATA, MSFC TWT 622 (TA125)

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ELV-1L • PARAMETRIC DATA (RIN107) .000 10.000 .000 . . BETA ELV-OL ELV-OR MSFC THT 622 (1A125) LAUNCH VEHICLE, 74 0TS 976.0000 IN. XT .0000 IN. YT 400.000 IN. ZT XHRP YHRP ZHRP REFERENCE DATA 2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES .00%0 SCALE . 5965 LAEF BREF

-.05000 -.05000 -.03000 -.01000 0.0000 0.0000 0.0000 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 5.00 ELV-OL 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 -5.00/ GRADIENT INTERVAL -.92000 CA .47880 .47980 .47480 .47040 .45010 .45890 .44590 .44080 .42010 .45080 6.85 CN87 01660 01650 01650 01650 01650 01650 01650 01650 01650 01650 ž ALPHA -11.530 -8.850 -5.240 -3.680 -1.330 -1.330 1.330 8.340 8.910 11.170 -1.100 GRADIENT 0 /08 SCN NO.

.00000 .00000 .00000 .01000 .01000 .04000 .04000 ELV-OL 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 -.00000 -5.00/ CPADIENT INTERVAL - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 - 92000 CA 49480 69820 749820 749880 749880 749880 749880 749880 749880 749880 749880 749880 749880 749880 749880 749880 749880 749880 £ 6.99 CNBF .01870 .01870 .01820 .01820 .01830 .01830 .01830 .01830 .01830 .01830 .01830 .01830 P. 6.450 9.020 11.420 -1.180 GRADIENT ALPHA -15.050 -12.220 -9.320 -6.570 -3.890 -1.210 1.320 3.840 81/0 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 **SE NO** 

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TABULATED SOURCE DATA, MSFC THT 622 (14125)

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(RINIG7) ( 04 JUN 75 ) PARAMETRIC DATA MSFC THT 622 (1A125) LAUNCH VEHICLE, 74 OTS

000 ELV-1L . ELV-1R . .000 .000 .000 BETA ELV-OL ELV-OR 976.0000 IN. XT .0000 IN. YT 400.0000 IN. Z 0.00 A REFERENCE DATA 2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES .00%0 SKET LREF BREF SCALE

.00000 .01000 .02000 .05000 .05000 .05000 .07000 .08000 .01000 .01000 5.00 ELY-OL 10.8000 10.8000 10.8000 10.8000 10.8000 10.8000 10.8000 10.8000 10.8000 10.8000 10.8000 10.8000 10.8000 10.8000 -5.00/ GRADIENT INTERVAL E.V-1L
-.92000
-.92000
-.92000
-.92000
-.92000 -.92000 -.92000 -.92000 -.92000 CA .47090 .46660 .45140 .45150 .45150 .45150 .44710 .43590 .43590 .43500 .45020 6.45 01490 01400 01330 01290 01210 01210 01210 01110 01110 01110 01110 • 1/NB ALPHA -14.820 -12.070 -9.210 -5.430 -1.090 1.520 4.390 6.600 9.190 11.670 -1.010 GRADIENT 138/0 PCN NO.

9E1A .00000 .00000 .00000 .00000 .01000 .01000 .01000 .02000 5.00 ELV-OL 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 -5.00/ GRADIENT INTERVAL ELV-1L
- 92000
- 92000
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- 92000
- 92000
- 92000 CA .36020 .35270 .34340 .32870 .32870 .32430 .32430 .31180 .31180 .31180 .30830 .30830 CNBF 0.00540 0.00500 0.00550 0.00550 0.00550 0.00550 0.00500 0.00500 0.00500 0.00500 0.00500 0.00500 ž ALPHA -12.140 -9.940 -7.610 -5.260 -2.980 -7.690 1.570 3.830 6.120 10.630 10.630 -620 **GRADIENT** 157/ 0 BEN NO.

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PAGE 118

ę F				TABUL	1 ED SK	ž	ABULATED SOUNCE DATA.		TSECTHI SECTIALES				740	D 	
				£5.	Į.	522 (	(S)	LAUNCH VEH	MSFC TWT 622 (1A125) LAUNCH VEHICLE, 74 OTS	'n		(RIN108)	87 NUC 40 ) 18	ė.	
REFERENCE DATA	70 33	¥.									PAR/	PARAMETRIC DATA	DATA		
2690.0000 SO. FT	14 S	A A A		976.	976.0000 IN. XT	× ×				BETA ELV-C	BETA	900.	ELV-11 =	5.030	
290.3000 INCHES	S W	2H2	•	69	VI 0000 00+	N. 24				á	ELV-08 =	000.			
		PCN NO.	on	0 /16	PN/C	•	5.01	GRADIENT	GRADIENT INTERVAL .	-5.00/	5.00				
		MACH		AL PHA	\$	, <b>8</b>	<b>S</b> ec	ర	ELV-1L	ELV-OL	BETA				
		5.98	m	-11.660	260	ē.	07510.	. 28880	4.50000	92000	.00000				
		.598	en.	-9.520	520	5	08116	. 28620	4.50000	92000	. 00000				
		. 599	m	-7.290	063	Ö	01150	. 28600	4.50000	92000	. 00000				
		.598	æ	-5.1:0	0:1	6	.01180	. 28523	4.50000	92000	.01000				
		. 598	œ	-2.900	900	6	04110	.28350	4.50000	92000	.0100				
		. 598	m	-	650	0	.01140	. 28220	4.50000	92000	. 02000				
		.598	m	-:	1.520	6	01110.	0:772.	4.50000	92000	.02000				
		. 598	m	m	340	ë	01080	. 26870	4.50000	92000	.03000				
		. 598	æ	3.6	5.970	<u>:</u>	08010	25930	4.50000	92000	.54000				
		. 599	<b>.</b>	9.6	8.220	ċ	020:0:	92545.	4.50000	92300	00040.				
		598	m	10.290	390	ci	01030	.23555.	# 50000	92000	.05000				
		.598	<u>~</u>	7	660	0	01120	.28:20	4.50000	92000	. 02000				
				GRADIENT	Z	2.5	60000	00825	00000	- 00000	5.000.				
		<b>26 NO</b> .	o	0 /06	RNIL	•	6.33	GRADIENT	GRADIENT INTERVAL .	-5.00/	5.00				
		MACH		AL PHA	ş	0 0 0 0	ų.	₹.	EL V-1L	ELV-OL	BETA				
		868		-13.250	350	ō	.01620	.34579	4.50000	92000	. 00000				
		888	<u></u>	-10.800	300	6	.01550	34370	4.50000	92003	.01000				
		969	æ	-8.280	580	6	02430	.33790	4.50000	92000	. 32000				
		888	æ	-5.790	790	6	01+10	.33030	4.50000	92000	.03000				
		868	œ	-3.350	350	ទ	01+10	. 32500	4.50000	92030	.03000				
		869	œ	ï	<del>9.</del> 0	5	.01320	.31850	4.50000	92000	00040.				
		889	æ	-	1.470	ö	.01290	.31380	4.50000	92000	. 05000				
		868	œ	M.	3.860	<u>.</u>	.01280	.31030	4.50000	92000	02000				
		. 838	œ	Ü	E.300	õ	.01280	30940	4.50000	92000	00080				
		. 898	•	0	8.750	5	.01250	.31080	4.50003	92000	.10000				
		868	æ	11.010	010	ο.	.0 300	.30500	4.50000	92000	.10003				
		<b>8</b> 6		900	306	ē.	.91310	31840	4.50000	92000	00050				
			-	GRADIENT	E U	2	. 00017	39203	60000	00000	1,500.				

SCALE .

DATE 06 OCT 75	200 t	ın		₹		TABULATED SOURCE DATA,	, MSFC TWT 622 (1A125)	622 (1A125				ì	PAGE 119
				-	MSFC THT	622 (1A125	MSFC TWT 622 (1A125) LAUNCH VEHICLE, 74 OTS	HCLE, 74 0	75		(8) (N) (B)	19) ( 0% JUN 75	3
		REFERENCE DATA	ATA							PAR	PARAHETRIC DATA	: DATA	
SPEF LREF BREF SCALE	2690. 1290.	2590.0000 50. FT 1290.3000 INCHES 1290.3000 INCHES .00+0	XHRP **	òn 芽	976.0000 IN. .0000 IN. 400.0000 IN.	IN. YI TX . XI TX . ZT			9E7A ELV-C ELV-C	9ETA ELV-OL ELV-OR	000	ELV-1L	. 000 . 000
			PUN NO.	88	O FFN/L	'L • 6.65		GRADIENT INTERVAL -	-5.00/	5.00			
			HACH	-	ALPHA	8	ర	ELV-it	ELV-OL	BETA			
			1.049	•	-14.170	.01830	7700	4.50000	92000	03000			
			670.1	•	-11.510	01710.	.47570	4.50000	92000	02000			
			640.1	•	-8.850	.01690	47350	4.50000	92000	01000			
			670.		-6.210	.01679	.46670	4.50000	92000	.00000			
			1.049	•	-3.660	.01630	.46100	4.50000	92000	.0100			
			640.	·	-1.120	.01620	.45650	4.50000	9200-	. 02000			
			1.049		1.350	.01510	. 45200	4.50000	92000	.02000			
			1.049		3.820	.01650	4+560	4.50000	92000	000+0.			
			0.0		6.350	.01720	683**.	4.50000	92000	.05000			
			1.049		8.900	01590	02624.	4.50000	92000	00070.			
			640.1		11.200	.0:630	.42120	4.50000	92000	00060.			
			640.:	•	-1.080	.01670	.45790	4.50000	92000	.02000			
				ğ	GRADIENT	.00003	00203	.00000	00000	.00361			
			RUN NO.	68	0 FRVL	'L • 6.77		GRADIENT INTERVAL	-5.00/	5.00			
			HACH	•	ALPHA	<b>S</b>	ర	ELV-11	ELV-OL	BETA			
			1.198	•	-15.000	.01820	. 50320	4.50000	92000	.01000			
			1.198	,	-12.160	.01740	00564.	4.50000	92000	.01000			
			1.198	•	-9.290	.01710.	. +9050	4.50000	92000	.0100			
			96:	•	-6.540	.01700	.48850	4.50000	92000	.02000			
			. 198	•	-3.850	.01690	.48720	4.50000	92000	.03000			
			<del>2</del> 6-	•	-1.200	.01660	. 48520		92000	00040			
			1.198		. 360	.01640	06674.	4.50000	92000	.05000			
			1.198		3.870	.01640	.47500	4.50000	9€000	00090.			
			1.198		6.470	01640	0+994.	4.50000	92000	.07000			
			1.198		9.050	.01620	.45520	4.50000	92000	06080.			
			1.198	_	11.440	.01650	CE944.	4.50000	92000	.11000			
			1.198	•	-1.140	.01643	.48530	4.50000	92000	00040.			
				Š	GRADIENT	00007	00163	. 00000	00000	.00389			

TABULATED SOURCE CATA, MSFC THT 622 (14125)	
26 OCT 75	

	333				INDUCATED SOUTH CATA, 1374 IN OCC. LIAIES!				
					MSFC THT 622 (14/25) LAUNCH VEHICLE, 34 015		2	(RIN108) ( 04 JUN 75 )	. č
	ux.	REFERENCE DATA	4			<b>a.</b>	PARAMETRIC DATA	DATA	
28		. is	œ X	•	976.0300 IN. XT	BE7A •	. 000	EL V-11 -	5.000
LARF		SOOD INCHES	YMAR		.0000 IN. YT	ELV-OL .	. 693	12.V-18 =	. 300
BAEF	- 1290.3000	SOUD INCHES	<b>SH3</b>		400.0000 IN. 27	ELV-08 .	.000		
SCALE		040							

HACH   ALPHA   CNBF   CA   ELV-1L   ELV-0L   BETA     1.462	MON MO. 1407 C		. O	CADIER	CHADIEN' INTERVAL # -5.00/	-3. PG	J. 00
-14.830 .01470 .46960 4.5000092000	Y	ALPHA	Sec.	5	ELV-IL	ELV-OL	BE7A
-9.210 .01340 .46520 4.5000092000	- 462	-14.830	01410.	. 46960	4.50000	92000	00000
-9.210 .01290 .46090 4.5000092000	1.462	-12.080	01340	. 46520	4.50000	92000	00010.
-6.430 .01250 .4.5900 4.5000092000	1.462	-9.2:0	.01290	. 46390	4.50000	-, 92000	.0200
-3.743 .01250 .44840 4.5000092000	1.452	-6.430	.01260	00464	4.50000	82000	.04000
1.500 . 01220 . 44680 4.50000 . 92000 . 900000 . 900000	1.462	-3.763	.01250	0,00,1	4.50000	92000	.03000
1.500 . 0122044510 . 4.5000092000	1.462	-1.070	.31220	C89**.	4.50009	92000	.05000
04040 - 05000 - 05000 - 19450 - 040040 - 05000 - 0500000 - 050000 - 050000 - 050000 - 050000 - 050000 - 050000 - 0500000 - 050000 - 050000 - 050000 - 050000 - 050000 - 050000 - 05000000 - 050000 - 050000 - 050000 - 050000 - 050000 - 050000 - 0500	1.462	1.500	.01220	00944.	4.50000	92000	. 26000
6.590 - 05000 + 07544 C01:0. 09300 C03.9 C03.0 C03.9 C03.0 C03.9 C03.0 C	1.462	4.040	31810.	01944.	4.5000	92000	02270.
9.590 - 00000 + 36000 + 360000 - 3600000 - 360000 - 360000 - 360000 - 360000 - 360000 - 360000 - 3600000 - 3600000 - 360000 - 360000 - 360000 - 360000 - 360000 - 360000 - 3600000 - 360000 - 360000 - 360000 - 360000 - 360000 - 360000 - 3600000 - 360000 - 360000 - 360000 - 360000 - 360000 - 360000 - 3600000 - 360000 - 360000 - 360000 - 360000 - 360000 - 360000 - 3600000 - 360000 - 360000 - 360000 - 360000 - 360000 - 360000 - 3600000 - 360000 - 360000 - 360000 - 360000 - 360000 - 360000 - 3600000 - 360000 - 360000 - 360000 - 360000 - 360000 - 360000 - 3600000 - 360000 - 360000 - 360000 - 360000 - 360000 - 360000 - 3600000 - 3600000 - 3600000 - 3600000 - 3600000 - 3600000 - 3600000 - 3600000 - 360000000 - 3600000 - 3600000 - 3600000 - 3600000 - 360000000000	1.462	6.590	06::0.	01244.	4.50000	92000	.07000
00055 - 00000 + 01654	1.462	9.200	008:0.	.43460	4.50000	92000	. 98000
-1.050 - 1.0500 - 1.50000 - 1.50000 - 00000 - 000000 - 000000 - 000000 - 000000	1.462	11.670	.01223	0160A.	4.50000	00056 -	1,0000
00000 00000 1+000 - 90000 -	1.462	-1.050	2515.	44770	4.50000	92000	00000
		GRADIENT	00005	1 9000 -	00000	.00000	. 30503

- NO.	156/ 0 APR	RN/L - 5.11	GRAD: ENT	• JEDVAL	-5.00/	. 9 . 9
MACH	ALPHA	8	చ	ברא-ור	EL V-0L	A7 38
€.740	-12.140	0.005.0	.36110	4.53000	92000	. 56563
2.740	-9.950	. 30500	.35210	4.50000	92000	05000.
2.740	-7.610	. 30523	.34420	4.50000	92000	00000.
٠. ک	-5.260	3+533.	.33520	4.50000	92000	.0000
27.0	-2.980	. 39550	.32870	4.50000	92000	.00000
2.740	670	. 00560	. 32~60	<b>₹.50000</b>	92000	00000
2.740	1.570	0.800.	.32000	4.50000	92000	.01000
2.740	3.840	. 00583	31530	.50000	92000	.01000
≥. √	6.140	. 20590	.30950	4.50000	92000	.0100
2.7.0	8.460	poesa.	.30700	4.50000	92000	. 02000
2.7	10.620	. 00590	.30180	4.50000	92000	03000
2.740	619	0.250	.32460	4.50000	92000	00000
	GRADIENT	*0000°	00197	.00000	00000	.00176

ABULATED SOURCE DATA
TAB
Ł
06 OCT
DATE

A. MSFC THT 622 (!A125)

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PAGE 12'

(RINI09) ( 04 JUN 75 ) ELV-IL • ELV-IR • PATAMETRIC DATA .000.01 9£7A . £LV-0L : £LV-0R = MSF. TWT 622 (1A125) LAUNCH VEHICLE, 74 OTS 976.0000 IN. XT .0000 IN. YT 400.0000 IN. ZT 99EF = 2690.0000 50, FT )
LAEF = 1290.3000 INCHES 7
BREF = 1290.3000 INCHES 7
SCALE = .00%0 FFERENCE

5.000 .000

5	Š	MAY 3.38				
3	ALPHA		క	ELV-IL	ELV-OL	BETA
ğ	-11.610		. 29420	4.50000	10.80000	00000
ğ	-9.480		07165.	4.50000	10.80000	0000
å	-7.250		. 29050	4.50000	10.80000	00000
ď	-5.090	31210	03165.	4.50090	10.8000	000.0
60	-2.870		.28880	4.50000	10.80000	
ę,	630		. 28320	4.50000	10.80000	
360	1.553		.27800	4.50000	10.80000	
200	3.773		05175.	4.50000	10.80000	.0400
đ,	6.020		.26110	4.50000	10.80000	.0400
60	8.270		.24860	4.50000	10.80000	. 05000
5	10 320		.23580	4.50000	10.80000	. 0500
å	630		. 25:40	4.50000	10.80000	. 02000
	GRADIENT	•	00262	00000.	. 00000	80400

PCN NO.	° 28	RN/L	• 6.59	GRADIENT	INTERVAL	-5.00/	5.00
HACH.			CNBr	វ	ELV-1L	ELV-OL	BE 1A
.900	•	•	.01610	.35260	4.50000	10.80000	.02000
.900	•	0	01510.	.35010	4.50009	10.80000	03000
.930		0	.01470	. 34 390	W.50000	10.80000	00000
666		0	.01430	.33540	4.50000	16.80000	.05000
900		0	.01350	. 32660	4.50000	10.80000	00020.
006	016	0	.01300	. 32520	4.50000	10.80000	.07000
. 500		0	.01300	.32130	.50000	10.80000	.08000
.930		6	.01310	.31550	4.50000	10.80000	00060.
.900		0	.01290	.31470	4.50000	10.80000	. 10000
.900		0	.01220	.31160	4.50000	10.80000	10000
.900			.01290	30790	4.50cco	10.80000	.11030
.930		0	01300	.32.20	4.50000	10.80000	00080.
	3	<u>-</u>	00-05	00155	00000	00000	.00291

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**5**.000 Ł ξ å ELV-16 5LV-18 PARAMETRIC DATA (R:N:09: 10.000 8£1A £LV-0L ELV-09 MSFC THE 622 CIAIZS! LAUNCH VEHICLE, 74 OTS 976.0000 1M. . 2000 1M. . 400.000.003 A THE REFERENCE DATA

5.00 GRADIENT INTERVAL . -5.00/ RW/L . 6.91

87, 0

2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES .00%0

SREF . LREF . BREF . SCALE .

03000 CA . 48170 . 47910 . 47910 . 45320 . 45320 . 45320 . 45320 . 45320 . 43280 . 43280 -.00222 CNBT 01710 01610 01610 01610 01610 01610 016000 01600 01600 01600 01600 01600 01600 01600 01600 016000 01600 01600 01600 01600 01600 01600 01600 01600 016000 01600 01600 01600 01600 01600 01600 01600 01600 016000 01600 01600 01600 01600 01600 01600 01600 01600 016000 01600 01600 01600 01600 01600 01600 01600 01600 016000 01600 01600 01600 01600 01600 01600 01600 01600 016000 01600 01600 01600 01600 01600 01600 01600 01600 016000 01600 01600 01600 01600 01600 01600 01600 01600 016000 01600 01600 01600 01600 01600 01600 01600 01600 016000 01600 01600 01600 01600 01600 01600 01600 01600 016000 01600 01600 01600 01600 01600 01600 01600 01600 016000 01600 01600 01600 01600 01600 01600 01600 01600 016000 01600 01600 01600 01600 01600 01600 01600 01600 016000 016000 016000 016000 016000 016000 016000 016000 016 ALPHA 11.940 11.940 -0.810 -0.800 -1.060 1.359 3.830 6.400 8.920 11.060 HACK 1.047 1

3.00 -5.00/ GRADIENT INTERVAL **8**8/L 0 /98 **SE** 80.

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# TABULATED SOURCE DATA, MSFC TWT 622 (14125)

MSFC THE G22 (14125) LAUNCH VEHICLE, 74 OTS

PAGE 123

(RINI09) ( 04 JUN 75

	000. 000
DATA	ELV-14 -
PARAMETRIC DATA	000.01
	BETA ELV-OL ELV-OR
	**** ***
	976.0000 IN. XT .0000 IN. YT 400.0000 IN. ZT
<b>4</b>	17 X480 • 15 X48
REFERENCE DATA	SQ. FT INCHES INCHES
EREN E	
ij	2690.0000 i 290.3000 1290.3000
	SPEF LREF SCALE

PCR NO.	139/ 0 PN/L	6.43	CRADIENT	GRADIENT INTERVAL .	-5.00/	5.00
MACH		CNBC	5	£LV-1L	ELV-O.	BETA
BC 7.	Ī	01470	.46830	4.50000	10.80000	.00000
- 58		.01340	.46710	4.50000	10.80000	00010.
458		.01300	04494.	4.50000	10.8000	.02000
1.458		.01280	.45760	4.50000	10.80000	.05000
1.458		.01270	.45290	4.50000	10.80000	000+0.
458		.01230	.45230	4.50000	10.80000	.05000
1,459		.01230	.45060	4.50000	10.80000	.07000
458		.01230	.44680	4.50000	10.80030	.07300
458	6.6:3	.01210	05544.	4.50030	10.80000	.08000
1.458	9.209	.012:0	.43720	4.50000	10.80000	00060.
4.58	11.630	.01230	.43230	4.50000	10.80000	. 1:300
458	-1.030	04510.	.45250	4.50000	10.8000	.05000
	GRADIENT	00005	00054	.00000	00000	42400 ·

RUN NO. 155	155/ 0 A	AN I	5.13	GRADIENT	INTERVAL	-5.00/, 5.00	5.00
	ALPHA		0.4 <b>8</b> F	ð	EL V - 1L	ELV-01	BETA
_	-12.140		04500.	.36140	4.50000	10.80000	00000
2.7	6.0		.00500	.35440	4.50000	10.80000	. 00000
_	-7.610		.00510	34540	4.50000	10.80000	00000
_	-5.260		00500.	.33650	4.50000	10.80000	00000.
	-2.980		.00550	. 32890	4.50000	10.80000	00000.
	650		.00550	. 32450	4.50000	10.80000	.01000
_	.570		00570	. 32110	4.50000	10.80000	.0100
	3.630		.00580	.31720	4.50000	10.80000	.01000
7.0	6.120		.00580	.31220	4.50000	10.80000	.01000
	8.460		.00500	. 30900	4.50000	10.80000	.02000
7.0	10.630		.00590	. 30530	4.50000	10.8000	.03000
_	630		.00570	. 32560	4.50000	10.80000	. 00000
_	PRADIENT		+0000	00169	.0000	. 00000	.00133

一般の物であるというのとはなっているとのできます。 これのできる かんしんしゅう はんしんしゅう

DATE 06 OCT 75		TABULATED S	TABULATED SOURCE DATA.		MSFC THT 622 (IA125)				PACE	ž.
		MSFC TWT	MSFC TWT 622 (!A125) LAUNCH VEHICLE,	LAUNCH VEH	ICLE, 74 075	'n	Œ	(RIN119)	2 NS 15	
AFFFRENCE DATA	4,4						PARAMETRIC	RIC DATA		
	•									9
- 2690.0000	e de la	976,0000 IN. XT	× ×			8E7A FLV-OL	۲ 	0 ELV-11	٠ <u>٠</u>	2 8 8
	db.Z	+000.000.				ELV	ELV-CR000	<u> </u>		
SCALE = .0040						•	6			
	<b>3 3 9</b>	99/ 0 RN/L	F. 4.92	GRADIENT	GRADIENT INTERVAL	-5.00/	o. c			
	2	AMQ 14	CNBC	5	11-A-13	ELV-OL	BETA			
		-11.560	.01070	. 29330	10.80000	-3.67000	00000			
	96	0:4.6	.01080	. 28460	10.80009	-3.67009	00000			
	965	-7.179	.01030	.28140	10.80000	-3.67059	00000			
	865	-5.010	.01040	.28270	10.80000	-3.67000	00010			
	600	-2.800	06600.	.28190	10.80009	-3.67000	00010.			
	865	-, 593	. 50970	.27589	10.80000	-3.67000	00020.			
	598	1.610	00970	.27333	10.80000	-3.67000	. 92000			
	865	3.830	.00950	.25530	10.61230	-3.6700C	.03000			
	805	6.050	02600.	.25610	10.80309	-3.67000	000+0			
	9	8.300	.0993	הרפייב.	10.80303	-3.57000	000+0			
	895	10.370	00800.	.23253.	10.80000	-3,67000	00040.			
	a di	- 590	.00953	0:878.	10.80030	-3.67000	. 02000			
		GPAD IENT	- 30000	1,30841	06000.	00000-	57503.			
	PUN NO.	0 /86	RN/L . 6.19	GPADIEN	GPADIENT INTERVAL	-5.23/	5.00			
		á	Jan	đ	ELV-11	ELV-OL	BETA			
		A1-1-0	01590	34920	10.80300	-3.67000	. 02000			
		-10.730	.01500	34590	10,80000	-3.67000	. 02050			
	000	061.89	.01420	.34019	10.80200	-3.67000	. 02300			
	006	-5.670	. 01 380	. 32860	10.80000	-3.67000	000-0			
	006	-3.260	.01310	.32110	00008.01	-3.67000	04000			
	036	860	.01270	.32120	:0.80003	-3.67030	. 05000			
	906	1.550	.01280	.31730	10.80000	-3.67009	00000			
	006	3.950	.01260	.31160	10.80000	5.6700	0000			
	906	6.410	.01270	.31250	10.80000	-3.6/039	00000			
	900	3.830	01240	.30930	10.80000	15.07050	00011			
	.900	11.100	.01250	.30370	10.80000	-3.57000	00070			
	.900	800	.01310	. 32500	00000	00000	00541			
		GRADIENT	00006	00143						

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HSFC THT 622 (IAIZS) TABULATED SOURCE DATA,

MSFC THT 622 (TAIRS) LAUNCH VEHICLE, 74 0TS

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5 3 (RIN119)

10.000 .000 ELV-IL • ELV-IR • PARAMETRIC DATA . 200. 200. 2000. 66.7A ELV-0. ELV-09 976.0000 1N. 3 .0000 .N. 400.0000 .N. 3 REFERENCE DATA 2690.0600 SQ. FT 1290.3000 INCHES 1290.3000 INCHES .0040 SAEF -LREF -BREF -SCALE -

3.00 ELV-OL -3.67000 -3.67000 -3.67000 .3.67000 .3.67000 .3.67000 .3.67000 .3.67000 .3.67000 .3.67000 -5.00 GRADIENT INTERVAL ELV-IL 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 01550 01550 01550 01550 01560 01560 01560 01560 .01760 - 1/2 ALP4A -14.110 -11.460 -0.140 -1.060 -1.060 -1.410 -0 È HACH ₹.

-5.00/ GRADIENT INTERVAL 6.55 ž 0 ì PEN NO.

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.01000 .01000 .01000 .01000 .01000 .02000 .05000 .05000 .05000 .06000 .06000 .06000 .06000 ELV-OL -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 ELV-IL 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 CA 4.8090 4.8091 4.9040 4.9040 4.9000 4.8000 4.6090 4. ALPHA 11. 966 19. 130 15. 130 15. 160 17. 100 11 530 -1.090 GRADIENT FRCH (1917) 11 (1917) 12 (1917) 13 (

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DATE 06 0CT 75			TABULATED SOURCE DATA.	DUPCE DATA,	MSFC 7HT	HSFC 74T 622 (14125)	=			PAGE	ž Š
			HE DESM	MSFC TWT 622 (1A125) LAUNCH ÆHICLE, 74 OTS	LAUNCH VEN	#CLE. 74 0	75		(RIN119)	57 KM 40 ) (0	- بو خ
REFERENCE DATA	AT.							ď	PARAMETRIC DATA	DATA	
2690,0000	di X		976.0000 IN. XT	+ 1 X 1			9£7A	•	900.	ELV-1L •	10.000
146F = 1290.3000 14CHES 346F = 1290.3000 14CHES	oca Z	• •	#00.000.00# #0. 24. 0000.00#	: t.			3 3	ELV-0R •		• • • • • • • • • • • • • • • • • • • •	900.
	PCN NO.		142/ 0 PN/L	9.6	GRADIEN	GRADIENT INTERVAL .	-5.00/	5.00			
	HACH		ALPHA	8	5	נרא-נר	ELV-OL	BETA			
	1.460		-14.860	.01420	.47450	10.83000	-3.67000	00000	_		
	1.460	0	-12.090	.01310	. 46832	10.90000	-3.67000	. 02200			
	1.460	0	-9.230	.01280	.46370	10.90000	-3.67000	. 02000	_		
	1.450	0	-6.430	.01250	31554.	10.80000	-3.67000	. 05099			
	1.450	co	-3,740	0:2:0.	353547	10.80000	-3.67030	00040.			
	1.450	0	-1.090	.01253	.44930	10.80000	-3.67000	.05000	_		
	1.463	c,	1.513	0.510.	05/44.	10.80000	-3.67000	.06000	_		
	1.458	<b>C</b> )	4.043	.01230	.44560	10.80000	-3.67030	.0700	_		
	. 450	o	6.600	.0:530	00373.	10,80000	-3.67300	. 97960	_		
	1.+60	0	9.180	.01220	.43520	10.80000	-3.67020	. 08000	_		
	1.450	0	11.690	0.4.O.	62354.	10.80000	-3.67000	. 1 0000	_		
	1.460	ပ	-1.310	.01250	C£674.	10.80000	-3.67930	. 35000	_		
			GRAD1ENT	-, 30005	00062	00039	55000	.00395			

DATE 06 OCT 75		TABLLATED	TABLEATED SOURCE DATA.		MSFC THT 622 (1A125)				PAGE	Œ 127
		MSFC THT	MSFC THT BRE (1A125) LAUNCH VEHICLE, 74 OTS	LAUNCH VE	אוכרב, זי סו	ý		CRINITI	1) ( 0% JUN 75	- 25 K
REFERENCE DATA	4						PAA	PARAMETRIC	DATA	
- 2690.0000	9	976.0000 IN.	IN. XT			BCTA St. St.	• · ·	000.	ELV-11 -	10.000
UNET 1 1290.3000 INCHES SCALE 1 0000	2	.000.0000 IN. ZT	N. 2.			נר	ELV-0R •	000		90.
Œ	RUN NO.	98/ 0 FN	RN/L = 5.03	GRADIEN	GRADIENT INTERVAL -	.5. 00\	5.00			
	¥	ALPHA	<b>10</b>	ర	ELY-IL	ELV-OL	BETA			
	. <b>6</b> 02	-11.690	.01330	.28990	10.80000	92000	. 00000			
	.602	-9.520	.01260	.28760	10.80000	92000	.01000			
	.602	-7.300	0.510.	28700	10.80000	92000	00010.			
	503	054:5	01210.	.28370	10.80000	92000	. 02000			
	.602	670	.01150	282.0	10.80000	92000	.03000			
	.602	1.530	.01120	.27550	10.80000	92000	.03000			
	-605	3.769	.01130	.27030	10.80000	92000	00040.			
	.632	6.000	01010.	.25680	10.80000	92000	00040.			
	-605	8.250	060:0.	.24750	10.80000	92000	02000			
	-605	10.310	.01050	.23330	10.80000	92000	.06000			
	.602	670	.01150	.28160	10.80000	92000	. 02000			
		GRADIENT	00013	00213	-, 00000	00000	.00271			
Œ	RUN NO.	93/ 0 AN	AN/L = 6.33	GRADIEN	GRADIENT INTERVAL .	-5.00/	5.00			
	#ACH	AL PHA	S S S S S S S S S S S S S S S S S S S	ర	ELV-1L	ELV-0L	<b>96</b> 7			
	.90≥	-13.250	.01620	.34670	10.80000	-, 92000	.01000			
	.902	-10.800	.01550	.34570	10.80200	92000	. 02000			
	ر بر ا	-8.290	01470	34010	10.80000	-, 92000	03000			
	506.	5.790	02710.	. 33200	10.80000	- 96200	04600			
	200	195.5 195.1	01360	35610	10.80006	- 92000	.06000			
	.902	1.470	.01280	.31500	10.80000	92000	.06000			
	.902	3.860	.01300	31490	10.80000	92000	.07000			
	- 905	6.310	.01300	.31600	10.80000	92000	.08000			
	.90S	8.750	.01280	.31340	10.80000	92000	.08000			
	-905	11.020	.01290	.30640	10.80000	92000	00001			
	.902	900	.01330	.32160	10.80000	92000	.06000			
		GRADIENT	00013	00196	00000.	00000	.00374			

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## TABLEATED SOUPCE DATA, MSFC THT 622 (TA125)

MSFC THT 622 (1A125) LAUNCH VEHICLE, 74 PTS

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976.0000 IV. XT	BETA .	. 330	ELV-IL .	10.030
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+00.0000 IN. ZT	ELV-08 •	. 000		

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SPEF = 2590.0000 50. FT )
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SCALE = .00v0

REFERENCE DATA

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### PEFFENCE DATA  ** \$650,000 \$30, FT   xrpp ** \$976,000   H. XT   R. C. VC. **	•										
### PREPENCE DATA  *** 2650. DODO \$2.** IT XYPP *** 976. DODO 1N. XT  *** 1290. 3000 1N-CES XYPP *** 976. DODO 1N. XT  *** 1290. 3000 1N-CES XYPP *** 9.000 1N. XT  *** 1290. 3000 1N-CES XYPP *** 9.000 1N. XT  *** 1290. 3000 1N-CES XYPP *** 9.000 1N. XT  *** 1290. 3000 1N-CES XYPP *** 9.000 1N. XT  *** 1290. 3000 1N-CES XYPP *** 9.000 1N. XT  *** 1290. 3000 1N-CES XYPP *** 9.000 1N. XT  *** 1290. 3000 1N-CES XYPP *** 9.000 1N. XT  *** 1290. 3000 1N-CES XYPP *** 9.000 1N. XT  *** 1290. 3000 1N-CES XYPP *** 9.000 1N-CES XYPP  *** 1.455	•			PSFC THI	622 (1A125)	LAUNCH VE	HICLE, 2 0	15		RINIT	2 3 E
1-80, 3000   1-6, 45   1-80   1-8	•	REFERENCE D	MTA						PAR	AMETR!C	
	• •		XI ARP	976.0000 .0000 400.2000				96. 13.00		000.	00.01 000.
ALPHA CNBF CA ELV-IL ELV-OL 14.082 10.8000092000 -9.19.000 0.01320 .46730 10.8000092000 -9.180 0.01320 .46730 10.8000092000 -9.180 0.01270 .45730 10.8000092000 -9.2000 0.01270 .45250 10.8000092000 -9.2000 0.01270 .45250 10.8000092000 -9.2000 0.01270 .44400 10.8000092000 -9.2000 0.01270 .44400 10.8000092000 -9.2000 0.01270 .44400 10.80000 -9.2000 0.01270 .44400 10.80000 -9.2000 0.01270 .43250 10.80000 -9.2000 0.0250 0.45020 10.80000 -9.2000 0.0250 0.45020 10.80000 -9.2000 0.0250 0.45020 10.80000 -9.2000 0.0250 0.25000 0.92000 0.92000 0.0250 0.0250 0.32440 10.80000 -9.2000 0.92000 0.92000 0.0250 0.0250 0.32480 10.80000 -9.2000 0.92000 0.92000 0.0250 0.0250 0.32480 10.80000 -9.2000 0.92000 0.92000 0.0250 0.0250 0.32480 10.80000 -9.2000 0.92000 0.92000 0.0250 0.0250 0.32480 10.80000 -9.2000 0.92000 0.92000 0.92000 0.92000 0.0250 0.0250 0.32480 10.80000 -9.2000 0.92000 0.92000 0.0250 0.0250 0.32480 10.80000 -9.2000 0.92000 0.0250 0.32480 10.80000 -9.2000 0.92000 0.92000 0.0250 0.0250 0.32480 10.80000 -9.2000 0.92000 0.92000 0.0250 0.0250 0.32480 10.80000 -9.2000 0.92000 0.92000 0.22	SCALE .	. 0040				GRADIEN		-5.00/	5.00		
5 -14.820 .01410 .47380 10.8000092000 .92			MACH	ALPHA	S	క	ELY-1L	ELV-OL	BETA		
5 -12.070 .01320 .46790 10.8000092000 -9.9200			1.465	-14.820	01410	.47380	10.80000	92000	.00000		
5 -9.180 .01280 .46200 10.8000092000			1.465	-12.070	.01320	.46790	10.80000	92000	. 02000		
5 -6.420 .01270 .45559 10.8000092000 .10200 .449569 10.8000092000 .1020 .10250 .44989 10.8000092000 .92000 .10250 .44989 10.8000092000 .92000 .92000 .01250 .01250 .44980 10.8000092000 .92000 .92000 .01230 .44250 10.8000092000 .92			1.465	-9.180	.01280	.46200	10.80000	92000	. 02000		
5 1.090 .01250 .44980 10.8000092000 .12500 .44980 10.8000092000 .9			. 465	-6.420	01270	. 45659	10.80000	. 92000	02000		
5 1.520 .01240 .44800 10.800092000 6.590 .01230 .44400 10.800009200092000 6.590 .01230 .44500 10.800009200092000 6.590 .01230 .43250 10.800009200092000 6.92000 -			1,000	1.090	0.000	00077	10.80039	95000	00000		
5 9.050 .01230 .44700 10.8000092000   5 9.180 .01240 .43250 10.8000092000   5 11.650 .01240 .43250 10.8000092000   5 -1.030 .01240 .43220 10.8000092000   6 -12.030 .01250 .45020 10.8000092000   7 -12.140 .00520 .35410 10.8000092000   7 -2.940 .00520 .35410 10.8000092000   7 -2.940 .00520 .35400 10.8000092000   7 -2.940 .00520 .35400 10.8000092000   7 -2.940 .00520 .35240 10.8000092000   7 -2.940 .00520 .33290 10.8000092000   7 -2.940 .00520 .33290 10.8000092000   7 -2.940 .00520 .33290 10.8000092000   7 -2.940 .00520 .33290 10.8000092000   7 -2.940 .00520 .33290 10.8000092000   7 -2.940 .00520 .33290 10.8000092000   7 -2.940 .00520 .33290 10.8000092000   7 -2.940 .00590 .32240 10.8000092000   7 -2.940 .00590 .32240 10.8000092000   7 -2.940 .00590 .32240 10.8000092000   7 -2.940 .00590 .32240 10.8000092000   7 -2.940 .00590 .32240 10.8000092000   7 -2.940 .00590 .32240 10.8000092000   7 -2.940 .00590 .32240 10.8000092000   7 -2.940 .00590 .32240 10.8000092000   7 -2.940 .00590 .32240 10.8000092000   7 -2.940 .00590 .32240 10.8000092000   7 -2.940 .00590 .30190 10.8000092000   7 -2.940 .00590 .32240 10.8000092000   7 -2.940 .00590 .32240 10.8000092000   7 -2.940 .00590 .32240 10.8000092000   7 -2.940 .00590 .32240 10.8000092000    7 -2.940 .00590 .30190 10.8000092000   7 -2.940 .00590 .30190 10.8000092000   7 -2.940 .00590 .30190 10.8000092000    7 -2.940 .00590 .30190 .00590 .30190 .30190 .30190 .			1.465	1.520	0.510.	00844	10.80000	92000	. 05000		
6.590 .012*9 .444*C0 10.8000092000 .012*9 .43659 10.8000092000 .012*9 .43659 10.8000092000 .92000 .012*9 .43259 10.8000092000 .92000 .012*0 .012*0 .43290 10.8000092000 .			1.465	£.050	.01230	00:35	10.80000	92000	.07090		
9.180 .01230 .43650 10.8000092000 .11.650 .01240 .43550 10.8000092000 .92000 .12.030 .13.20 10.8000092000 .92000			1.465	6.590	012*3	00151	10.83000	92000	.08000		
5 11.653 .01240 .43:20 10.8000092000 6RADIENT00055000480000000000 153/ 0 RW/L = 5.13 GRADIENT !NTERVAL * -5.00/ 5.00 -12.140 .00530 .35110 10.8000092000 -9.940 .00550 .35410 10.8000092000 -5.290 .00550 .33590 10.8000092000 -5.290 .00550 .33590 10.8000092000 -5.290 .00550 .33590 10.8000092000 -5.290 .00550 .33140 10.8000092000 -5.290 .00550 .33140 10.8000092000 -5.290 .00590 .32140 10.8000092000 -5.290 .00590 .32140 10.8000092000 -5.290 .00590 .32140 10.8000092000 -5.200 .00590 .32140 10.8000092000 -5.200 .00590 .33140 10.8000092000 -5.200 .00590 .33140 10.8000092000 -5.200 .00590 .33140 10.8000092000			1.455	9.180	.01230	.43653	10.80009	92000	. 08000		
GRADIENT00055000480000000000  1537 0 RN/L = 5.13 GRADIENT !NTERVAL = -5.007 5.00  ALPHA CNGF CA ELV-1L ELV-0L ELV-0L 12.140 .00530 .35410 10.8000092000			1.465	11.653	01240	.+3:20	10.80000	92000	.11030		
GRADIENT00005000480000000000  153/ 0 RN/L = 5.13 GRADIENT !NTERVAL = -5.00 / 5.0  ALPHA CNBF CA ELV-1L ELV-0L  -12.140 .00530 .35410 10.8000092000  -7.610 .00520 .33410 10.8000092000  -5.290 .00550 .33590 10.8000092000  -2.980 .00550 .33590 10.8000092000  -2.980 .00550 .33590 10.8000092000  1.570 .00580 .32480 10.8000092000  1.570 .00590 .3280 10.8000092000  0 1.570 .00590 .3180 10.8000092000  0 6.120 .00590 .3180 10.8000092000 530 .00590 .3073: 10.8000092000 530 .00590 .3073: 10.8000092000			1.465	-1.030	.01250	.45020	10.80000	92000	.05003		
ALPHA CNBF CA ELV-1L ELV-0L -9.940 .00550 .35+10 10.8000092000 .7.610 .00550 .35+10 10.8000092000 .7.610 .00550 .35+10 10.8000092000 .7.610 .00550 .35+10 10.8000092000 .7.610 .00550 .33+10 10.8000092000 .7.6200 .35+10 10.8000092000 .7.6200 .35+10 10.8000092000 .7.6200 .35+10 10.8000092000 .7.6200 .35+10 10.8000092000 .7.6200 .35+10 10.8000092000 .7.6200 .31+10 10.8000092000 .7.6200 .31+10 10.8000092000 .7.62000 .7.6200 .30+10 10.8000092000 .7.6200 .30+10 10.8000092000 .7.6200 .30+10 10.8000092000 .7.6200 .30+10 10.8000092000 .7.6200 .30+10 10.8000092000 .7.6200 .30+10 10.8000092000 .7.6200 .30+10 10.8000092000 .30+10 10.8000092000 .30+10 10.8000092000 .30+10 10.8000092000 .30+10 10.8000092000 .30+10 10.8000092000 .30+10 10.8000092000 .30+10 10.8000092000 .30+10 10.8000092000 .30+10 10.8000092000 .30+10 10.8000092000 .30+10 10.8000092000				GRADIENT	00005	B+300'-	00000	00000	. 00501		
ALPHA CNGF CA ELV-IL ELV-OL-12.140 .00530 .36110 10.8000092000 -9.92000 .35410 10.8000092000 -9.92000 .35410 10.8000092000 -9.92000 .3540 10.8000092000 -9.92000 -						GRADIEN		-5.00/	5.00		
-12.140 .00530 .35110 10.8000092000 -9.940 .00500 .35410 10.8000092000 -7.610 .00520 .34460 10.8000092000 -2.980 .00550 .33590 10.8000092000 -2.980 .00570 .32420 10.8000092000 -1.570 .00580 .32120 10.8000092000 3.830 .00590 .31140 10.8000092000 6.120 .00590 .31140 10.8000092000 8.440 .00590 .30180 10.8000092000 -530 .00580 .32563 10.8000092000			MACH	ALPHA	<b>36</b>	5	EL V-12	ELV-OL	BETA		
-9.940 .00500 .35410 10.8000092000 -7.610 .00520 .34460 10.800009200092000 -5.290 .00550 .33590 10.800009200092000 -2.2900 .00570 .33010 10.800009200092000 1.570 .00590 .32120 10.8000092000 23180 10.8000092000 6.120 .00590 .3180 10.8000092000 8440 .00590 .3180 10.8000092000 10.520 .00590 .30180 10.800009200092000 10.520 .00590 .30180 10.800009200092000530 .00580 .32563 10.8000092000			2.70	-12.140	.02530	.36110	10.80000	92000	. 00000		
-7.610 .00520 .34460 10.8000092000 -5.290 .00550 .33590 10.8000092000 -2.980 .00570 .32420 10.8000092000 -1.570 .00580 .32120 10.8000092000 3.830 .00590 .31660 10.8000092000 6.120 .00590 .31140 10.8000092000 8.440 .00590 .30130 10.8000092000 10.520 .00590 .30180 10.8000092000 530 .00580 .32563 10.8000092000			2.30 2.30	-9.940	. 00500	35-10	10.80000	92000	. 00000		
-5.290 .00550 .33590 10.8000092000 -2.980 .00570 .33010 10.80009200092000920009200092000920009200092000 .32120 10.800009200092000 9.1570 .00590 .3160 10.8000092000 9.150 .00590 .31140 10.8000092000 9.400 .00590 .30130 10.800009200092000530 .00580 .32563 10.8000092000			2.740	-7.610	. 00520	.34460	10.80000	92000	00000		
-2.980 .005-0 .33010 10.8000092000 -580 .00370 .32-83 10.8000092000 1.570 .00580 .32120 10.8000092000 6.120 .00590 .31140 10.8000092000 8.440 .00510 .30732 10.8000092000 10.520 .00580 .30180 10.8000092000 -530 .00580 .32563 10.8000092000			2.740	-5.290	. 30550	.33590	10.80000	92000	00000.		
680 .00.370 .32483 10.8000092000 1.570 .00580 .32120 10.8000092000 3.830 .00590 .31560 10.8000092000 6.120 .00590 .31140 10.8000092000 10.620 .00590 .30130 10.8000092000 10.620 .00590 .32563 10.8000092000			2.70	-2.980	.00550	.33010	10.80000	92000	00000.		
1.570 .00580 .32120 10.8000092000 3.830 .00590 .31560 10.8000092000 6.120 .00590 .31140 10.8000092000 8.40 .00510 .30732 10.8000092000 10.520 .00590 .30180 10.8000092000 530 .00580 .32263 10.8000092000			2.740	680	. OC 370	.32483	10.80000	92000	00000		
3.830 .00590 .31660 10.8000092000 6.120 .00590 .31140 10.8000092000 8.440 .00610 .3072; 10.8009092000 10.620 .00590 .30180 10.8000092000 530 .00580 .32563 10.8000092000			2.740	1.570	.00580	.32120	10.80000	92000	.01000		
6.120 .00590 .31140 10.6000092000 6.440 .00510 .3073; 10.8099092000 10.520 .00590 .30180 10.8000092000 530 .00580 .32563 10.8000092000			2.740	3.830	06500.	.31660	10.80000	92000	.0100		
8.40 .00510 .3072; 10.8090092000 10.520 .00590 .30180 10.8000092000 530 .00580 .32563 10.8000092000			2.70	6.120	. 00590	31 14G	10.80000	92000	.01000		
10.620 .00590 .30:80 10.8000092000530 .00580 .32563 10.8000052000			2.740	0.440	.00610	.30733	10.80550	92000	. 02000		
530 .00580 .32563 10.8000092000			2.740	10.620	. 00590	.30!83	10.80000	92000	.03000		
			2.740	530	.00580	.32563	10.80000	92000	.01000		

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TABULATED SOURCE DATA, MSFC THT 622 (1A125)	
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DATE 06 OCT 75	30 75		TABLLATED S	TABULATED SOURCE DATA,		45FC THT 622 (1A125)	£5.			PAGE	3E 130
			MSFC THT	MSFC THT 622 (IA125) LAUNCH VEHICLE, 74 OTS	LAUNCH VE	HICLE, 74 C	375		(RIN112)	27 NUC +0 ) (S	ج د د
	REFERENCE DATA	ITA						PARA	PARAMETRIC DATA	DATA	
SPEF	2690.0000 SQ. FT	de XX	976.0000 IN. XT	IN. X			BETA ELV-C	٠.	000.000	ELV-1L =	10.000
BREF .	1290.3000 INCHES	- d&-2	400.0000 IN. ZT	IN. ZT			ELV.		000.		
		₹ 9	100/ 0 RN/L	ال • 4.95	GRADIEN	GRADIENT INTERVAL	-5.00/	5.00			
		HACH	ALPHA	SMO	ర	ברי-זר	£1.4-01	BETA			
		.600	-11.530	04110.	.28650	10.80003	10.80000	. 00000			
		.600	-9.380	01110.	. 28500	10.80000	10.80000	.01000			
		. 600	-7.130	.03050	.28320	10.8000	10.80000	00010.			
		909.	0.970	08010.	. 28420 . 28420	10.60000	10.80000	00010			
		009	070.1	01010	.27730	10.80000	10.8000	. 02000			
		. 500	1.650	00010.	07575.	10.80000	10.80000	. 02000			
		.600	3.880	.01000	.26630	10.80000	10.80000	.03000			
		209.	6.:20	02860	. 25590	10.80000	10 60000	00040.			
		.600	8.370	09600'	.24250	:0.80003	10.80000	000+0.			
		.630	10.420	0+600*	. 232°c	10.80000	10 8000	. 55500			
		.630	500	01010	C-675.	10.80000	10.80000	. ეგიიმ			
			GRADIENT	60000-	0520-	00000	62233	. ၁୯୧೭5			
		R. NO.	1017 0 RN/L	رد • 6.26	GRADIEN	GRADIENT INTERVAL	100 5-	5.00			
		HACH	AL PHA	CNBF	5	ELV-!L	Et V-OL	BETA			
		666	-13.160	.01520	.35480	10.80333	10.80000	. 02000			
		. e99	-10.790	.01530	.35090	10.83338	10.80000	.02000			
		. B59	-8.120	.01+50	3+0+0	10.80000	10.80000	00050			
		. e99	-5.640	00410	.33220	10.80000	10.82000	00040.			
		399	-3.220	.01350	. 32670	10.80000	10.82000	.05000			
		668	803	.01350	.32753	10.8000	16.85050	. 05030			
		6 <u>6</u> 8	1.600	.01330	.32210	10.89320	10.80000	. 05000			
		668	t.030	.01333	.3:710	10.80000	10,80000	.07000			
		658	6.440	.01320	.31540	10.80000	10.82233	00000.			
		66P	8.860	.01240	31440	10.80000	10.80000	00060.			
		836	11.130	.01320	.30+60	10.80000	10.80000	00060.			
		668	760	.01340	. 32780	10.80000	10.80000	.05030			
			ORADIENT	00005	00142	00000	66655.	. 00291			

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TABULATED SOURCE DATA, MSFC THT S22 (1A125)

MSFC THT 622 (1A125) LAUNCH VEHICLE, 74 075

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C DATA	ברא-ור	ELV-IR -	
PARAMETRIC DATA	.000	10.000	. 000
		,	,
	BETA	ELV-OL	ELV-OR

976.0000 IN. XT .0000 IN. YT 409.0000 IN. ZT

SAEF = 2690.0000 SQ. FT LREF = 1290.3000 !NCHES BREF = 1290.3000 !NCHES SCALE = .00%0

REFERENCE DATA

5.00	BETA	01000	01000	.00000	. 00000	.0200	.03000	000+0.	.05300	.06000	.07000	00000.	.03000	-00400	5.00	9£1A	.02000	.0100	. 02000	.03000	000+0.	.05000	.05000	.08000	.08000	00060	. 11000	. 05000	. 00506
-5.00/	ELV-OL	10.80000	10.80000	10.80000	10.80000	10.80000	10.80000	10.83030	10.83300	10.80000	10.63000	10.80000	10.83000	.00000	-5.00/	ELV-OL	10.80000	10.83000	10.80000	10.80000	10.80000	10.80000	10.80000	10.80000	10.80000	10.80000	10.80000	10.80000	. 00000
GRADIENT INTERVAL5.007	EL V - 1L	10.80000	19.80000	10.80300	10.80303	10.82000	10.80000	10.80000	10.80000	10.80000	10.8000	10.80000	10.80000	. 20000	GRADIENT INTERVAL	ברא-ור	10.82000	10.85300	10.82000	10.80000	10.80000	10.80000	10.80000	10.80000	19.80000	10.80000	10.80000	10.80000	00000:
	ర	.47850	.48170	47900	0.574.	. 45630	.46130	. 45430	COOS+.	OE I to	C8224.	00824.	.46280	00225	GRADIEN	క	01774.	. 49310	07064.	. 48683	. 48600	04484	.47830	.47230	.46510	.45380	DE 444.	. +8580	03:8
RN/L = 6.52	CNBC	07710.	.01690	.01620	.01600	01550	.01550	.01590	.01680	.01570	.01630	.01730	.01620	.000:7	L = 6.64	CNBr	.01710	.01600	.01570	.01550	.01530	01540	01510.	.01570	.01560	.01540	.01590	.01570	. 00005
103/ 0 RN/	ALPHA	-14.030	-11.390	<b>-6</b> .700	-6.030	-3.560	-1.000	0.44.0	3.910	6.460	8.980	11.270	. <del>-</del> . 96c	GRADIENT	102/ 0 RN/L	ALPHA	-14.860	-12.010	-9.120	-6.380	-3.700	-1.040	1.490	4.000	6.580	9.130	11.570	-1.010	GRADIENT
PCN NO.	MACH	1.047	1.047	1.047	1.047	1.047	1.047	1.047	1.047	1.047	1.047	1.0%	1.047		RUN NO.	MACH	. 198	1.199	1.199	1.199	1.199	1.199	1.199	. 199	1.199	1.199	. 199	1.199	

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TABULATED SOURCE DATA, MSFC THT 622 (TA125) DATE 06 DCT 75

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10.000 SE 858 75 ELV-11 = PARAMETRIC DATA (RIN112) 000.01 . . BETA ELV-OL ELV-OR MSFC THT 622 (1A125) LAUNCH VEHICLE, 74 OTS ž ž ž 976.0000 .0000 .0000 de de la REFERENCE DATA 2690.0090 SQ. FT 1290.3000 INCHES 1290.3000 INCHES .00%5

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. 00000 . 02000 . 02000 . 02000 . 05000 . 09000 . 09000 . 05000 . 05000 5.00 ELV-QL 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 -5.00/ GRADIENT INTERVAL ELV-II.
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9ETA .00000 .00000 .00000 .00000 .00000 .01000 .01000 .01000 .01000 5.00 00008.01 00008.01 00008.01 00008.01 00008.01 00008.01 00008.01 00008.01 00008.01 -5.00/ GRADIENT INTERVAL 00008.01 00008.01 00008.01 00008.01 00008.01 00008.01 00008.01 00008.01 00008.01 00008.01 00009.01 EL V- 11 CNBF - 00530 - 00500 - 0058 Ž ALPHA -12.140 -9.940 -7.590 -5.260 -2.980 -.660 1.570 5.150 8.470 10.630 -.620 6.150 0 13. **3 3** 

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DATE 06	DATE 06 OCT 75			748ULA 7ED	TABULATED SOURCE DATA,		HSFC THT 622 (IA125)	ίĝ			
				MSFC TH	MSFC THT 622 (18125) LAUNCH VEHICLE, 74 OTS	LAUNCH VE	MICLE. 74	015		(RIN113)	3 - £
	AEFE.	REFERENCE DATA	۲,						PA	PARAMETRIC DATA	DATA
	2000.0000 SQ. FT	50. FT		976.0000 IN. XT	.0000 IN. XT			*		.000	
BEEF SCALE	1290.3000 INCHES	NOFES	0.2	**************************************	IN. Z4			ਜ਼ ਦ	ELV-01.	-5.000 .000	ELV-IR .
		Œ	S	115/ 0 AN	RN/L = 4.98	GRADIEN	GRADIENT INTERVAL	- 5.00/	5.00		
			MCH HOW	ALPHA	8	5	£LY-1L	ELV-OL	¥1.38		
			.693	-11.610	.01220	.28950	14.50000	-3.67000	00000		
			. 505	-9.440	.01180	. 28760	14.50000	-3.67000	.0100		
			.605	-7.190	.01180	. 28590	14.50000	-3.67000	.0000		
			.695	-5.020	.01130	.28440	14.50000	-3.67000	.01000		
			695	-2.790	0110.	.28370	14.50000	-3.67000	. 02000		
			69	570	.01100	. 28:30	14.50000	-3.67000	. 02000		
			60 60	1.630	0.010.	05462.	14.50000	-3.67000	.03000		
			.605	3.860	.01040	. 26850	14.50000	-3.67300	03000		
			209.	6.383	.01020	. 25830	14.50000	-3.67030	00040.		
			. 505	6.330	08600	.24780	14.52000	-3.67000	.05000		
			5	10.4:0	01010	. 23590	14.50309	-3.67000	.05000		
			608.	590	05010.	.28010	14.50000	-3.67000	.02000		
				GRAD! ENT	00011	00238	00000	.00000	.00180		
		Œ	PUR NO.	114/ 0 PBL	RN/L = 6.25	GRADIEN	GRADIENT INTERVAL	-5.00/	5.00		
			M CH	VHC TY	SABA	ð	ברא-זר	ELV-OL	BE TA		
			.933	-13.230	.01610	.35020	14.50000	-3.67000	. 02000		
			.903	-10.739	.01510	34430	14.50000	-3.67000	.04000		
			.903	-8.190	. 31460	.33930	14.50000	-3.67000	000 00		
			505	-5.720	.01420	. 33200	14.50000	-3.67000	.05000		
			E 000 .	-3.260	. 01350	.32420	14.50000	-3.67000	. 05000		
			509.	<b>5</b> 6.	.01300	.32180	14.50000	-3.67000	.06000		
			5 E	0.00 F	08210.	31800	14.50000	-3.67000	. 07000		
			£06	6.380	.01280	31310	200000	-1.67000	00000		
			.903	9.830	.01230	.31270	14.50003	-3.67000	10000		
			.903	11.090	.01270	.30400	14.50000	-3.67000	11000		
			.903	830	.01310	.32420	14.50000	-3.67000	.06000		
				GRADIENT	00013	00151	. 00000	62000	.00417		

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9ETA 101000 100000 101000 102000 103000 108000 108000 111000 108000 111000 5.00 ELV-OL -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 ELV-OL -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 -3.67000 -6.35/ GRADIENT INTERVAL 14.50000 14.50000 14.50000 14.50000 14.50000 -.00000 14.50000 14.50000 4830C 47330 47330 46800 46350 475750 CA + 48500 + 49490 - 49490 - 49490 - 49830 - 47590 - 45100 - 45100 - 45100 - 45100 - 45100 - 45100 - 45100 - 46100 - 4 CNBF -01740 -01660 -01660 -01670 -01670 -01670 -01670 -01670 -01670 -01670 -01670 -01670 -01670 -01670 -01670 -01670 ¥ ALP44 -14.190 -11.500 -8.790 -3.660 -3.660 -1.000 8.970 8.970 8.970 -1.020 GRADIENT ALPHA - 19, 950 - 12, 950 - 12, 950 - 13, 750 - 15, 730 - 15, 730 - 15, 730 - 15, 750 113/0 **SE SO** 

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TABULATED SOURCE DATA, MSFC TWT 622 (14129)	MSFC THT 622 (1A125) LALMCH VEHICLE, 74 OTS	
DATE 06 OCT 75		REFERENCE DATA

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PARAMETRIC DATA

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		Compley, Interest			
AL PHA	S C S S S S S S S S S S S S S S S S S S	5	ELV-11	ELV-OL	BETA
-14.820	.01390	. *7660	14.50000	-3.67000	.0100
-12.CEC	00130	.46970	14.50000	-3.67000	0.050.
-9.180	.01280	.46320	14.50000	-3.67000	.02000
-6.420	.01261	.45700	14.50000	-3.67090	.05000
-3.750	.01280	.45120	14.50000	-3.67000	00040
-1.359	.01260	. 45000	14.57000	-3.67000	.05000
1.5:0	.01250	62674.	14.0000	-3.67300	. 06000
4.050	05210.	44750	14.50000	-3.67000	.00070
5.65c	.01250	.44560	14.50000	-3.67000	. 08000
328 6	01240	.43730	14.50000	-3.67000	00060.
227.11	.01250	. 3220	14.50000	-3.67000	11000
-1.0.	.01260	.45030	14.50000	-3.67009	.05000
GR 10!EN"	0000	00046	. 00000	56830	.00385
150/ 0 PM	RN/L . 5.13	GRADIEN	GRADIENT INTERVAL	-5.00/	5.00
AL PHA	Jan S	5	ELV-1L	ELV-OL	B£7A
-12.140	06400	36390	14.50000	-3.67000	.00000
-9.950	00200	.35480	14 30000	-3.67000	.00000
-7.610	.00520	34620	14.50000	-3.67000	00000
-5 293	. 00550	.33730	.4.50000	-3.67000	00000
-2.980	. 20560	.33000	14.50000	.3.67000	00000
660	. 00580	. 32550	14.50000	-3.67000	00010.
1.570	00230	32140	14.50000	-3.67900	00010.
3.843	00590	.31710	150000	-3.67000	.01000
6.120	.00600	.31069	14.50000	-3.67000	00010.
0,40	01900.	.30650	14.50000	-3.67000	. 02000
10.630	.00600	.30230	14.50000	-3.67000	03000
630	. 00580	.32590	14.50000	-3.67003	00010.
GRADIENT	M0000.	00189	. 00000	00000	. 00123

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	CADIENT INTERVAL - CA ELV-1L -28900 14-50000 -28690 14-50000 -28690 14-50000 -28690 14-50000 -28690 14-50000 -28590 14-50000 -28590 14-50000 -28510 14-50000 -28510 14-50000 -28510 14-50000 -28510 14-50000 -28510 14-50000 -28510 14-50000 -28510 14-50000 -28510 14-50000 -28510 14-50000 -28510 14-50000
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ı	DATE 06 OCT 75		TABLE	7ED 50	TABULATED SOURCE DATA.		MSFC THT 622 (1A125)	-			ã	PAGE 137
			¥	THT	22 (1A125)	LAUNCH VE	MSFC THT 622 (IAI25) LAUNCH VEHICLE, 74 OTS	21		(RIN114)	NO 10 (1)	<b>3 3</b>
	REFERENCE DATA	<b>4</b>							PAF	PARAMETRIC DATA	C DATA	
SAEF .	2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES .0040	XPRRP YMRP ZMRP	975.0000 .0000 400.0000	976.0000 IN. XT. .0000 IN. YT 400.0000 IN. ZT	* * * * * * * * * * * * * * * * * * * *			8 ជ ជ	BETA ELV-OL ELV-OR	0000	ELV-16 •	15.000
		PE NO.	119/ 0	RN/L	6.53	GRADIE	GRADIENT INTERVAL .	-5.00/	<b>5</b> .00			
		MACH	AL PHA	3	<b>18</b>	ర	ELV-11	ELV-OL	BETA			
		1.047	•	96	.01850	.48960	14.50000	92000	0300			
		1.047		S	.01830	. 48830	14.50000	92000	01000			
		1.047		300	.01750	02787	14.50000	92000	00000			
		1.047	-6.150	č.	01730	05674.	14.50000	92000	.00000			
		1.047		663	.01670	.47290	14.50000	- 9200C	00010.			
		1.947	-1.C*C	<u>ن</u>	.01670	. 46850	14.50000	92000	.02000			
		1.047	1.430	30	.01670	. 46260	14.50000	92000	03000			
		1.047		0:1	.01730	.45660	14.50000	92000	00040.			
		1.0%	6.450	50	.01779	.45110	14.50000	92000	.06300			
		1.047	8.980	60	.01693	.44150	14.50000	92000	.0000			
		1.047	1: 250	CS	.91793	06764.	14.50000	92000	. 08000			
			GRAD!EN"	ż	70000.	00219	00000	00000	00400			
	-	RUN NO.	119/ 0	J.	6.65	GRADIE	GRADIENT INTERVAL	-5.00.	5.00			
		MACH	AL PHA	<b>\$</b>	8	ర	ELV-1t	ELV-OL	BETA			
		1.205	•	00	057.0.	01164	14.50000	92000	.01000			
		1.205		960	.01670	09864	14.50000	92000	.00000			
		1.205	-9.170	5	.01590	.49210	14.50000	92000	.01000			
		1.205	-6.420	50	.01600	08064	14.50000	92000	.02000			
		1.205		5	.01580	06884	14.50000	92000	.03000			
		1.205		070	.01620	.48760	14.50000	92000	.05000			
		1.205		1.460	.01620	.48330	14.50000	92000	.05000			
		1.205		3.970	.01620	.47630	14.50000	92000	.07000			
		1.205	6.550	920	.01630	01074.	14,50000	92000	.07000			
		1.205		9	01910.	0.664	14.50000	92000	00060.			
		1.205	11.550	550	.01650	.45110	14.50000	92000	. 11000			

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TABULATED SOURCE DATA, MSFC THT 622 (TA125)	MSFC THT 622 (14,25) LAUNCH VEHICLE, 74 075
0ATE 96 OCT 75	

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	OCCUBENCE DATA							•			
		17.						PAR	PARAMETRIC	DATA	
SPEF .	2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES .00%	· day	976.0000 in. XT .00000 in. YY XX .NI 0000.004	N			BETA ELV-(	BETA ELV-OR	0000	ELV-11.	. 200 . 200
		PEN NO.	146/ 0 RN/L	ار = 6.47	GRADIEN	GRADIENT INTERVAL	-5.00/	5.00			
		MACH	AL PHA	<b>10</b>	ర	ברא-זר	ELV-OL	BETA			
		1.462	-14.8:0	06\$10.	.47660	14.50000	92000	00000.			
		1.462	-12.040	00810.	0.4694.	14.50000	92000	. 02000			
		1.462	-9.180	.01280	.46470	14.50000	92000	.02000			
		:.462	-6.4:0	01210.	.45850	14.50003	92000	.05000			
		1.452	-3.730	.01280	45240	14.50000	-, 92000	00040.			
		1.462	-1.050	01270	.45180	14.50000	92000	.05000			
		1.462	1.530	.01259	, 4E080	14.50000	92000	00279.			
		1.462	¥.050	.01250	016**	14.50000	98000	. 37989			
		. 462	6.530	.01253	CB5**.	14.53310	92020	000BO.			
		- 462	9.213	.01250	. 4 3800	14.50000	-,92230	00060			
		1.462	11.703	.01252	.43330	14.50000	92000	.11303			
		1.462	-1.320	.01250	01.07	14.50000	92500	. 05000			
			GRADIEN*	*0000 ±	₹4636	00000	00000	. 39425			
		<b>2 3 3 3 3 3 3 3 3 3 3</b>	149/ 0 PN/L	/L = 5.13	SPADIEN	SPADIENT INTERVAL	-5.00/	5.00			
		MACH	ALPHA	SN9	ర	ELV-1L	ELV-0L	BETA			
		2.740	-12.140	06+00	. 36330	14.50000	92000	00000			
		2.740	-9.940	.00500	.35460	14.50000	92000	00000			
		2.740	-7.610	. 00520	OABAD.	14.50000	92030	00000			
		2.740	-5.280	.00550	.337!9	14.50000	92000	00000.			
		2.749	-2.980	. 20560	. 33020	14.50000	92000	00000.			
		2.745	680	.00580	.32550	14.50200	92000	.0100			
		2.740	1.570	.00590	.321:0	14.50000	92000	.01000			
		2.740	3.840	06500.	.31690	14.50000	000-8	00010.			
		2.740	6 120	. 20600	.31090	14.50000	92000	.02000			
		2.740	8.4.0	0:900	.30640	14.50000	92000	.02000			
		2.740	10.630	. 00590	.30290	14.50000	92000	03000			
		2.740	620	. 00580	32470	14.50000	92000	00010.			
					90.00			P - C C			

D

		SF.C	TWT 62	P (1A125)	LAUNCH VE	MSFC THT 622 (14125) LAUNCH VEHICLE, 74 OTS	ý		(RINI 15)	57 MW 40 ) (8	Z 25.
REFERENCE DATA	¥.							PA	PARAMETRIC	DATA	
SAEF = 2690.0000 50, FT LAEF = 1290.3000 INCHES SCALE = .00%0	XMRP YMRP ZMRP	976.00 .00.	976.0000 IN. XT .0000 IN. YT YOO.0000 IN. ZT	X			<b>ಹ</b> ದ ದ	ELV-08 .	. 000 . 000 . 000	ELV-1L . ELV-1R .	10.000 .000
-	گر اگ	107/ 0	Ž	. y	GRAD I EN	GRADIENT INTERVAL .	-5.00/	5.00			
	MACH	ALPHA	_	<b>Ja</b>	3	ELV-1L	ELV-OL	BE TA			
	596	-11.540	õ	0.510.	. 28930	10.80200	4.50000	.00000			
	596	-9.380	ē	.01230	. 28980	10.86000	4.50000	.00000			
	. 596	-7.150	92	.01200	. 28970	10.80000	4.50000	00000			
	.596	-4.950	9	.01170	. 28730	10.80000	4.50000	.01000			
	.596	-2.750	9	.01160	. 28660	10.80003	. 50000	.01000			
	.596	340.1	ဝ်	0+110.	.28250	10.80000	4.50000	. 02000			
	596	1.650	ဋ	.0110	.27633	10.80000	4.50000	.03000			
	.596	3.880	2	01110	353 <b>75</b> .	10.80000	4.50000	.03000			
	596	6.100	5	.01050	.25930	10.80303	4.50000	.04000			
	.596	8.350	5	07010.	.24920	10.80000	4.50000	.0400			
	596	10.423	õ	05010	. 235+0	10.83030	4.50000	.05000			
	596	540	Ö	.01110.	.28230	10.80000	4.50000	.02000			
		GRADIENT		30008	00201	00000	00000	. 00272			
-	<b>3 8 9</b>	0 /901	FAVE	6.22	GRADIEN	GRADIENT INTERVAL .	-5.00/	<b>5</b> .00			
	FACH	ALPHA	_	CMBC	5	ELV-11	ELV-OL	9£1A			
	.903	-13.130	9	.01570	.35060	10.80000	4.50000	.01000			
	.903	-10.660	9	.01500	. X-750	10.80000	.50000	. 02000			
	.903	-9.160	9	.01420	34000	10.80000	<b>→.50000</b>	.03000			
	.903		٥	.01410.	.333+0	10.80000	4.50000	00000.			
	.903	-3.250	õ	.01310	. 32450	10.80000	¥.50000	04000			
	.903	920	ō	.01250	. 32320	10.80000	4.50000	.06030			
	.903	1.580	2	.01290	.31990	10.80000	4.50000	.06000			
	.903	3.950	92	.01300	.31670	10.80000	.50000	00080.			
	.903	6.400	õ	.01310	.31650	10.80000	4.50000	00080.			
	.903		9	.01280	.31350	10.80000	*.50000	00060			
	.903	_	2	.01290	.30760	10.80000	4.50000	00060			
	.903	800		.01290	32,60	10.80000	4.50000	.05000			
		<b>ORADIENT</b>		00002	00111	.00000	00000.	.00500			

DATE 06 OCT 75	£				TABULAT	,E0 SQ	36	DATA.	TABULATED SOURCE DATA, MSFC THT 622 (1A125)	629	(14125)					PAGE	¥ 5	_
					<b>1</b>	THT 6	22 (	32 4	MSFC TWT 622 (!A125) LAUNCH JEHICLE, 75, 0TS	HICLE	. y or	v			<u> </u>	(RIN115) ( 04 JUN 75 )	ž Š	
	REFEREN	NCE DATA	<											ã	PARAMETRIC DATA	: DATA		
SPEF - 269	0.0000 50.	50. FT	œ.×	•	976.000C !N. XT	N: 00	¥.						BETA	•	3 000	1; - A-;	10.000	ç,
LREF . 129	0.3000 :N	:NCHES	d V		S	.0000 IN. YT	۲,						ELV-OL	•	5.303	ELV-IR -	. 003	ç;
89EF • 129	1290.3000 !NC	INCHES	ZHBD	•	400.0000 IN. ZT	M1 00	. 27						E: V-08	•	. 900			
SCALE =	0,00.																	
		Æ	§ 3		o ì	₹ 1	•	3	RUN NO. 1047 0 94/L * 6.52 GRADIENT INTERVAL * -5.007 5.00	Z	FERVAL -	-5.00	, ,	8				

MACH	AL PAS	CNB	5	514-11	ELV-OL	9£1A
.046	-14.130	00110.	.47210	10.80000	4.50000	02000
.046	-11.450	.01570	.47580	10.80000	4.50000	01000
940.	-8.729	.01580	.47370	10.80000	4.50000	0100
640.	-6.120	.01530	01894	10.30000	4.50000	00000
940.	-3.570	. u:58c	.45380	10 80000	4.50000	0010.
940	-1.040	.01580	0:654	10.80000	4.50000	.03000
940.	5:4:5	.01620	. 45380	10.80000	4.50009	000+0.
940.	3.900	.01580	06911	10.80300	4.50000	. 5500
5	6.443	0.01643	05044.	10.80000	4.50000	. ၁5000
5,0	69.000	.01590	43130	10.80000	4.50000	.0700
010	11.283	037:0.	.42662	10.80000	4.50000	. <b>38</b> 000
G 10	086.1	C4640.	. r e e e e	10 80000	4.50000	00020.
	GRAD : E'4"	₹00000	50237	63633	00000.	. 00523
	105/ 0 RN/L	/L • 6.63	GPAC: EN	GPADIENT INTERVAL	-5.00/	<b>3</b> .00
MACH	ALPHA	CNBF	ర	ELV-11	EL V-0L	BE 1.A
66	-14.930	.01800	. 47400	10.80000	4.50000	. 9099
1.99	-12.093	.01763	04064.	10.83000	4.50000	00000
661	-9 :60	.01670	. 48680	10.80000	4.50000	. 00000
8	-6.390	.01663	C1787.	10.80000	4.50000	.02300
661	-3.739	.01670	.48500	10.80000	4.50000	.03000
<u>8</u>	6-0.1-	.01580	.48530	10.80303	4.50000	.0403
661.	1 473	01690	47900	10.83003	4.50000	.0500
199	3.992	.91710	.47583	10.80000	4.50000	.0726
99	6.583	.01562	.46700	10.80000	4.50000	.0700
561	0,10	.01583	.45600	10.80000	4.50000	00060.
56	11.570	01710.	.44650	10.80000	4.50000	.1550
199	-1.320	.01530	.47950	10.80000	4.50000	00070.
	COADIFAT	. 90005	-,00:32	-, 20000	00000	. 0505

oct 75		TABULA	TABULATED SOURCE DATA.		MSFC TWT 622 (1A125)	_			PAGE	- 1×1
		<b>3</b> 5	MSFC THT 622 (TAI25) LAUNCH VEHICLE, 74 OTS	LAUNCH VE	HICLE, 74 0'	15		(RIN115)	5) ( 04 JUN 75	ال الا د
REFERENCE DATA	ATA						PAA	PARAMETRIC DATA	DATA	
2696,0000 50, FT 1290,3000 INCHES 1290,3000 INCHES	district the state of the state	976.0	976.0000 IN. XT .0000 IN. YT 409.0000 IN. ZT			861A 61V-0	9614 • ELV-04 •		ELV-1L	000.00
	KA NO.	14.4 0	PN/L = 6.44	GRADIEN	GRADIENT INTERVAL +	-5.00/	5.00			
	MACH	ALPHA		ర	ELV-1L	ELV-OL	BETA			
	99.			.47300	10.80000	4.50000	00000			
	897.	-12.050	00510. 001	.46810 46360	10.8000	4.50000	02010.			
	. +58			.45720	10.80000	4.50000	.0500			
	. +68			.45100	10.80000	4.50000	00040			
	1.468	1.050	50 .01250	.45070	10.80000	4.50000	.05000			
	1.468			C96 74.	10.8000	4.50000	.06000			
	1.468	4.050	50 .01240	GE 35.	10.8000	4.5000C	.07000			
	- 468	6.630	30 .01230	44610	10.80003	4.5 3000	. 28000			
	1.458	9.2:0	01220	43810	10.80000	4.50000	00060.			
	1.468	11.690	90 .01250	43340	10.80003	4.50000	.11000			
	1.458	066	90 .01250	.45080	10.80000	4.50000	.05000			
		GRADIENT	NT00005	++000	00000	00033	.00396			
	PEN NO.	152/ 0	RN/L + 5.14	GRADIEN	GRADIENT INTERVAL .	-5.00/	5.00			
	MACH	AL PHA	A CNBr	చ	EL V-1L	ELV-0.	BETA			
	2.750	1 -12.130	30 .00530	.36210	0.8000	50000	.00000			
	P. 70		•	.35453	10.80000	4.50000	.00000			
	2.73	1 -7.610	10 .00520	.34330	10.80000	4.50000	00000			
	2.750	-5.280	80 .00550	.33680	10.80000	4.50000	. 00000			
	2. Y	1 -2.980	•	. 32860	10.80000	4.50000	00000			
	2.740			. 325.30	10.80000	4.50000	00000			
	2.740	1.570		.32100	10.80000	4.50000	.0100			
	2.7℃	3.840	•	.31680	10.80000	4.50000	00010			
	2.740	6.120	•	.31200	10.80000	4.5000c	.02000			
	2.740	9.460	•	. 30850	10.80000	4.50000	. 02000			
	2.7	-	•	.30490	10.80000	¥.50000	.03000			
	2.7.0		•	. 32600	00008.01	*.5000C	00000			
		GRAD LENT	*0000.	00175	00000	. 00000	.00176			

DATE 06 OCT 75

SREF LREF BREF SCALE

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

			MSFC THT	MSFC THT 622 (14125) LAUNCH VEMICLE.	LAUNCH VE	4!CLE. 74 0TS	115		(AINI16)	NO -00 - 104	Ĺ
	REFERENCE DATA	<b>1</b> A						PARA	PARAMETRIC DATA	DATA	
385	_	e dist	976.0000 IN. XT	IN. XT			BETA	•	000	•	15.000
LAEF	_	Q A	.0000 IN. YT	<u>.</u>			ברא נייי	•	000.01	ELV-IR	900.
SCALE	1290.3000 INCHES	e down Z	400.0000 IN. ZI	IN. 21			ב				
	-	PGN NO.	108/ 0 RN/L	/L = 14.92	GRADIEN	GRADIENT INTERVAL =	-5.00/	5.00			
		Ĭ	AHQ IA	Jen C	5	EL V- 11.	ELV-0L	BETA			
		598	-11.480	01170	. 29070	14.50000	10.80000	. 00000			
		965.	-9.370	.01230	.29310	14.50000	10.80000	.0100			
		598	-7.140	.01210	0.282.	14.50000	10.80000	.01000			
		598	026.4-	.01230	. 29130	14.50000	10.83000	. 02000			
		598	-2.760	.01140	C+785.	14.50000	10.85650	. 02000			
		. 598	520	.01150	.28570	14.50000	10.80000	03030			
		598	1.670	.01150	07575.	14.50000	10.80000	00040.			
		598	3.900	.01130	.27392	14.50000	10.8000	06040.			
		.598	6.159	.01120	. 26410	14.50000	10.80000	.05000			
		598	8.400	.01120	. 25230	14.50000	10.80000	.06000			
		598	10.450	07010.	. 23920	14.50000	10.80000	.06000			
		598	520	.01160	.28693	14.50000	10.80000	.03000			
			GRAD1ENT	60000	30192	00000	-, 00000	. 00271			
	-	RUN NO.	109/ 0 RN/L	/L = 6.20	GRADIEN	GRADIENT INTERVAL	-5.00/	5.00			
		HACH	AL PHA	CNBF	ర	ברא-ור	ELV-Q	BETA			
		668	-13.130	.01580	.35120	14.50000	10.80000	. 02000			
		668	-10.660	001400	34740	14.50000	10.80000	. 03000			
		. 899	-8.130	.01420	.34120	14.50000	10.80000	00040.			
		668	-5.660	.01410.	.33290	14.50000	10.82000	00000.			
		668	-3.220	.01340	.32580	14.50000	10.80000	00090			
		668	810	.01290	. 32430	14.50009	10.80000	. 06000			
		669.	1.600	.01320	. 32290	14.50003	10.80000	00090			
		668.	£.300	.01290	.31600	14.50000	10.80000	00060.			
		.899	6 420	.01300	.31560	14.50000	10.8000	00050			
		668	9.870	.01290	.31280	14.50000	10.80000	.10000			
		669	11.110	.01320	. 30450	14.50000	10.80000	13000			
		668	790	.01290	. 32560	14.50000	10.80000	. 06030			
			GRADIENT	-, 00005	00128	00000.	(cooo)	£00°.	,		

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PARAMETRIC DATA (RIN116) .000 .000 .000 . 01000 . 01000 . 02000 . 02000 . 05000 . 09000 . 11000 . 11000 5.00 5.00 6E TA ELV-OL ELV-OR -5.00/ ELV-OL 10.80000 10.80000 ELV-OL 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 10.80000 -5.00/ 0.85000 MSFC THT 622 (1A125) LAUNCH VEHICLE, 74 OTS TABULATED SOURCE DATA, MSFC THT 622 (TA125) GRADIENT INTERVAL GRADIENT INTERVAL ELV-IL 14.50000 14.50000 14.50000 14.50000 14.50000 14.50000 14.50000 14.50000 14.50000 14.50000 ELV-11 14.50000 14.50000 14.50000 14.50000 14.50000 14.50000 14.50000 14.50000 14.50000 14.50000 14.50000 CA . 49200 . 49140 . 49880 . 47880 . 47280 . 45730 . 45370 . 45370 . 44430 . 44430 **6**.0 CNBF 01720 01720 01630 01630 01630 01630 01630 01630 01630 01630 01630 01630 01630 976.0000 IN. 2 .0000 IN. 2 Ĭ ALP4A -14.160 -11.440 -6.110 -3.580 -1.020 -1.450 3.930 6.480 9.000 11.300 -1.990 -1.990 0 /111 110/0 ₹. 60. de de la companya de REFERENCE DATA 2690.0000 SQ. FT 1290.3520 INCHES 1290.3000 INCHES .CO40 DATE 06 OCT 75 SPEF LREF BREF SCALE

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ELV-1L • ELV-1R •

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DATE 96 OCT 75	35		TABULATED S	TABULATED SOURCE DATA, MSFC THT 622 (18125)	HSFC THT	622 (1A125	2			PAGE	<del>*</del>
			HSFC THE	MSFC TWT 622 (TAI25) LAUNCH VEHICLE, 74 075	LAUNCH VEH	11CLE. 74 9	7.5	Œ	(RIN116)	25 MM 25	yr.
	REFERENCE DATA	A 7.1						PARAME	PARAMETRIC DATA		
SPEF = 2694 LPEF = 1296 BPEF = 1296 SCALE =	2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES	YMRP 7	976.0000 IN. XT .0000 IN. YT XO.0000 OV	X X X X X X X X X X X X X X X X X X X			BETA CLV-C ELV-C	* * * * * * * * * * * * * * * * * * *	.000 ELV-1L .000 ELV-1R		.000
		3	147/ 0 RN/	RN/L = 6.43	GRAD! ENT	GRADIENT INTERVAL -	-5.00/	5.00			
		<b>K</b> CH	AL PHA	5000	5	ELV-11.	ELV-OL	BETA			
		1.465	-14.820	.01390	04864	14.50000	10.80000	00000			
		1.465	-12.050	.01310	.47200	14.50000	10.80000	. 02000			
		1.465	-9.190	.01300	.46773	14.50005	10.80000	. 02000			
		1,465	6.4.9	.01290	. 46113	14.50000	10.80000	.0500			
		1.465	-3.729	.01280	.45600	14.50000	10.80000	00070			
		1.465	-1.062	.01260	06454.	14.50000	10.80000	.05000			
		1.465	: 530	.01250	.45380	14.50000	10.80000	00000.			
		1.465	₩, 060	.01250	.45320	14,50000	10.60000	. 08000			
		1.465	6.620	.0:250	0:064.	14.50000	10.83000	.08000			
		1.455	9.200	.0:250	061++	14.50000	10.9000	00060.			
		1 465	11.700	.0:273	.43577	14.50233	10.9000	00011.			
		1.465	-1.033	.01270	. 45573	14.50000	10.80000	. 05000			
			GRADIENT	₹00000	_£000	.0000	00000	04500.			
		20. 15.	148/ 0 RN/	RN/L = 5.12	GRAD: ENT	GRADIENT INTERVAL .	-5.00/	5.00			

15.000

March . The said and it as

10.8000 10.800 . 36550 . 36550 . 34580 . 34580 . 33050 . 32700 . 31870 . 31870 . 31870 . 31870 . 31870 . 31870 . 31870 . 31870 CNBF 00500 00500 00550 00550 00550 00550 00550 00500 005 ALPHA -12.120 -9.930 -7.600 -5.260 -2.960 -1.590 3.850 6.140 6.140 -2.470 ORADIENT 

DATE 06 OCT 75		148U.	TABULATED SOURCE DATA,		HSFC TUT BRZ (TALES)	1141251			PAGE	14.5 14.5
		Ě	C TMT 622	(14125) LA	MSFC THT 622 (1A125) LAUNCH VEHICLE, 740TS+213	. 74075+213		ITI INI BI	25 NJ (25 JUN 75	ž č
REFERENCE DATA	<b>4</b>							PARAMETRIC DATA	: DATA	
2690.0000 5	SE .	976.	ž	•				000	ORBINC .	90
LREF • 1290.3000 INCHES BREF • 1290.3000 INCHES SCALE • .0000	d d.		.0000 IN. YT 400.0000 IN. ZT	<b>b</b> - <b>b</b> -			SPOILR .	<b>60</b> . 000		
15	RUN NO.	67/ 0	RN/L .	6. 18	GRADIENT INTERVAL	ERVAL5.	-5.00/ 5.00			
		MACH	AL PHA	5	9	i de	5			
		<b>8</b>	-12.850	.01450		0.00770	34450			
		<b>96</b> 7.	-10.550	01410	.01260	00530	OTTO			
		<b>8</b> 6	-8.120	.01320		~.00≥60	.33460			
		. 798	-5.780	.01280		00100	33340			
		96	-3.450	.01250		-, 90:00	.328%0			
		798	-1.050	.01200		. 00000	. 32550			
		798	1.243	07110.	. 00580	. 00270	.32070			
		.798	3.620	.01100	. 00360	. 00390	.31220			
		.798	6.030	01110.	00:30	. 00380	30440			
		798	077.00	.01100		00100	04162.			
		. 79 <b>8</b>	10.640	.01090	01220	01600	. 28160			
		964.	-1.050	.01200	. 00520	04000.	. 32600			
			GRADIENT	00021	00045	¥2000.	00228			
•	PUN NO.	0 /99	BN/L .	<b>6</b> .31	GRADIENT INTERVAL -		-5.00/ 5.00			
		MACH	AL PHA	Sen C	9 3	Š	5			
		<b>6</b> 6	-13.390	.01580	.02010	04100	37510			
		668	-10.980	07410.		01500.	.37010			
		<b>8</b> 6	-8.470	.01420		. 00430	. 36500			
		66	-6.020	.01380	. 02930	00+10	. 35080			
		<b>6</b>	-3.590	. 01300	.02560	. 00370	. 35320			
		669	-1.180	.01320		00050	D2945			
		œ. 6	1.200	.01230		. 00330	03/35.			
		E 8	3.030	01630	000.0	00000	00%24			
		£ 8	0.130	01010	02110.	0.000	DECET.			
		<b>S</b> 8	8.630	0.000	ocean.		00012			
		\$ 8 8	26.95		0.007.00	00293	35550			
		n D	GRADIENT	0001€	00069	00001	00223			

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Ü	03+30	<b>10</b>	650.	6.0	.027	₹.	.015	.006	536	026	035	.018	Č
CHEO	.01710	.01120	.01000	04/00.	.30583	C4400.	00110	30570	5-130	00700	00663	04500.	60.00
<b>10</b>	01810	0.61970	.01780	.01730	00710.	.01693	.01590	0111.0	0:550	01690	3.6.0.	01910	
AL PHA	-14.080	-11 560	- <b>9</b> .900	-6.350	-3.640	-1.330	1.080	3 560	6.123	60,700	11.020	-1.290	C.03.1 C.0.7
#ACH	997	766.	<b>196</b> .	796.	. <del>99</del> .	766.	r. 66 .	5	7 <u>9</u> 6.	£66.	. 997	ر56.	

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ġ	62/0	- 1/2	6.77	GRADIENT INTERVAL +		-5.00/ 5.00
	MACH	A. PHA	CNEC	Qu O	ĕ	ర
	1.348	-14.373	06L10.	.01450	.05060	.51140
	1.94B	-11,740	.01690	. 00600	062 -0	.51670
	 	0+0.6-	.01710	.00420	.03830	.51600
	0,0.	-6.450	.0:670	0,000.	.03460	51100
	1. C48	-3.910	.01600	000	.03180	. 50430
	 	-1.370	.01570	00200	.02800	.49730
	3.048	1.100	.01569	00500	.01740	. +8580
	 670	7.600	.01640	00640	ა <u>ვ600</u> .	30964.
	1.048	6.175	.01550	00800	00,00	. 46460
	1.048	8.730	.01570	00710	.00280	.45300
	1.049	11.062	.01630	00880	.00310	0::35
	.048	-1.300	0.01640	00220	. 02320	06864
		GRAD! ENT	<b>*0000</b> .	+8000°-	003:0	00385

SREF = 2690.0000 SQ. FT LREF = 1290.3000 INCHES BREF = 1290.3000 INCHES SCALE = .00%0

976.0000 IN. XT .0000 IN. YT 400.0000 X. Z REFERENCE DATA

MSFC THT 622 (!A125) LAUNCH VEHICLE, 740TS+213

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(RINI17) (25 JUN 75 ) MSFC THT 622 (1A125) LAUNCH VEHICLE, 740TS+213 TABLEATED SOURCE DATA, MSFC TWT 622 (IA125) DATE 06 OCT 75

PAGE 147

.000 ORBINC . PARAMETRIC DATA BETA -976.0000 IN. XT .0000 IN. YT 400.0000 IN. ZT

2690.0000 SO. FT 1290.3000 INCHES 1290.3000 INCHES .00v0

SCALE . SPEF

REFERENCE DATA

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ORADIENT INTERVAL - -5.00/ 5.00 FW/L - 5.80 0 /19 ٠ ا

5	.51230	.52080	.520+0	.51830	.51140	.501+0	.48750	00564.	. 46×00	0.844	.43790	. 50230	00483
<b>.</b>	.06670	.06160	.05620	.05140	.04710	.03960	.03110	.02420	.02110	.0:820	01810.	03440	00303
0360	.01540	. 90510	00180	00470	00610	00630	00420	00440	00850	01050	01390	00690	. 00028
5	.01620	.01570	.01550	.01563	.01530	.01470	03710.	.01450	01410.	.01420	.01460	01510	00011
ALPHA	-14.600	-11.900	-9.190	-6.570	-4.030	-1.390	1.110	3.650	6.270	9.8:0	11.:60	-1.360	GRADIENT
H OH	. 1 06	196	1.106	1.106	1.106	1.106	901:	1.106	1.106	1.106	1.136	1.156	_

CA 4.9940 4.9940 4.9940 4.9940 4.7450 4. GRADIENT INTERVAL = -5.007 5.00 0461 07020 07020 05080 05380 04740 04740 03370 03370 02800 06800 04800 06800 0 01370 01370 01370 01370 01370 01370 01370 01410 01410 01410 01410 01410 01410 01410 ALPHA -14.680 -11.990 -9.260 -3.990 -1.403 -1.403 -1.403 -1.269 -1.360 -1.360 PN/L . è ₹ 5

FEFERENCE DATA  SWEF = 2690.0000 SQ. FT XMSP = 976  LNEF = 1290.3000 INCHES YMSP = 400.  SCALE = .00%0  RNA NO. 65/ 0	MSFC THT B22 (IAI25) LAIMCH VEHICLE, 75075+213	IAI25) LAUN	2 7 7 7 7	7.075.213		(F11N117)	C 185, 58.7
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Residence of the second						PARAMETRIC DATA	DATA
RA 40. 65	976 0000 IN. XT				6ETA .	006.	ORBINC .
<b>.</b>						9	
MACH	- 7/NB	8.	GRADIENT INTERVAL5.00/	WAL5.0	9/ 5.00		
	AL PEAA	5	03 <del>4</del> 0	ij	ฮ		
5	-15.280	.01690	.01440	.0880	. 50940		
1.33	-12.440	.01610	.002.0	04€80	.51300		
1.252	-9.523	.01570	00390	. 09270	.5:030		
1.252	-6.710	.01530	00710	.07990	.53283		
- 253	-3.990	.01520	00580	07770.	06767		
1.352	-1.290	01440	00800	.07560	.48383		
1.252	1.280	.01450	31190	. 98120	1960		
282.:	3 780	.01*90	02240	0.620.	.47530		
1.252	6.390	CL410.	02890	.07300	0.69.		
- 252	0 6 9°	00410.	03820	.05960	.45520		
1, 252	11.400	C 3 % ! D .	-,04030	.05900	00177		
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	GRAD!ENT	£0000 -	50:83	- 000 M	₹,200		

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ST AJL 25 1 1811N1R) CIPBING PARAMETRIC DATA .000 ALMA . 33030 33030 33030 33030 3230 3230 3280 33040 33180 33180 33180 33180 CA 35460 36451 36451 36360 35360 35090 36090 36090 36090 36090 36000 36000 00/ 5.40 -5.00/ 5.00 MSFC THT 622 TAIRS) LAUNCH VEHICLE, 740754213 0.5850 0.5850 0.02360 0.01986 0.01980 0.0170 0.00530 0.00530 0.00530 CRADIENT INTERVAL . TABLEATED SOLPCE DATA, HSFC THT 622 (TALES) ORADIENT INTERVAL 0.000 0.0170 0.0170 0.0170 0.0170 0.0170 0.0170 0.0170 0.0170 0.0170 0.0170 0.0170 0.0170 0.0170 0.0170 0.0170 01340 01240 01240 01240 01240 01240 01340 01340 01340 01340 01340 6.35 9674 -9.270 -7.330 -7.330 -2.550 -2.550 -2.550 -2.550 -2.550 -2.550 -2.550 -2.550 -2.550 -2.550 -2.550 -2.550 -3.5 976,0000 IN. Y . 406,0000 IN. 2 , Ž 57, 0 ₹ 8 **35 50** REFERENCE DATA 2690 0000 SQ FT 1290,3000 HACHES 1290 3030 HACHES DATE GG OCT 75 

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1.980 4.330 6.650 9.050 11.310 -310 GRADIENT

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TABULATED SOURCE DATA, MSFC THT 622 (1A125) DATE 06 OCT 75 HSFC THT 622 (1A125) LAUNCH VEHICLE, 740TS+213

(RINI18) ( 25 JUN 75 )

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PARAMETRIC DATA

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.000 ORBINC -ALPHA -SPOILR -

GRADIENT INTERVAL - -5.00/ 5.00 RN/L . 6.85 58 ₽\$ ₽

XMRP = 976.0000 IN, XT YMRP = .0000 IN, YT ZMRP = 400.0000 IN, ZT

SPEF = 2690.0000 SQ. FT X LREF = 1240.3000 INCHES Y BREF = 1530.3000 INCHES Z SCALE = .0040

5	02/72	47890	.47880	.47840	.47630	.47320	.47640	.47870	0.084.	.48230	.49300	.47320	11000.
G.E.	.03720	. 09520	.09310	09460	. 08830	.080€0	.06580	.05580	04940	. 04420	.04290	.07240	00477
CHEO	01910	01900	01790	01610	01390	01040	30480	00070	00070	00200	00170	00750	.00192
<b>169</b> 0	.01460	.01380	.01360	.01320	.01320	01340	.01320	.01340	.01390	.01463	01540	01340	50000.
BETA	-12.400	-9.990	-7.520	-5.090	-2.700	340	2.000	4.360	6.770	9.230	11.550	310	GRAD I ENT
HYCH	1.264	1.264	1.264	1.264	1.264	1.264	1.264	1.264	1.264	1.254	1.264	1.264	

REFERENCE DATA

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DATE 06 OCT 75		TABC.	TABULATED SCURCE DATA,		MSF_ TWT 522 (!A125	:A125'			PACE	<u>2</u>	
		₹.	45FC THT 622 '	14:25	114125) LAUNCH VEHICLE, 74075+213	212+5.042		(6) IN15)	83 · 6	ě.	
REFERENCE DATA	4							PARAMETRIC	DATA		
SPEF = 2690.0000 50. FT LREF = 1290.3000 !NCHES 9PEF = 1290.3000 !NCHES SCALE = .0040	A HERD	976	976 0000 IN. XT .0000 IN. YT 400 0000 IN. ZT				BETA SPOILR -	000°.	■ 0M8:MC	000.	
-	PUN NO.	0 /##	PN/L .	88	GRADIENT INTERVAL .	RVAL5.	-5.00/ 5.00				
		MACH	ALPHA	CNBC	040	ij	5				
		108	-12.690	018:0.		.04030	31470				
		.603	-10.380	01270	07750. 0	0.03610	. 30923				
		.831	-7.953	.0:22		.03320	. 30150				
		.693	-5.623	.31183		.03500	. <b>295</b> 93				
		.693	3.813	.0135		.03:20	C5252.				
		.83	:-8	0:1:0		.03250	Ç-682.				
		.080	1.430	31:0	0.03230	03+80.	.28622				
		.09	COL. W	.9:060		.03550	C+082.				
		.683	S 6	.0:080		.03-60	35.5				
		9.	8.533	50:0.	017.01	.3325	2551.0				
		.801	10.730	09010.		.38653	. 25293				
		100	CE9	.0::0.	0.02940	03873	. 28930				
			GRADIENT	000:3	•	. 33750	27,001				
_	RUN NO.	45/ 0	.1	6.23	GRADIENT INTERVAL .	RVAL = -5.	-5.007 5.00				
		I V	AL PHA	CNBr	0540	ž	<b>5</b>				
		506.	-13.340	.01470	00550. 0	. 05:30	CTTTE .				
		926	-10.960	004:0.		01110.	34:60				
		-35E	-e 330	.01379		03340	334.0				
		. <b>9</b> 02	-5.833	.01380		. 52479	32463				
		806°	-3 380	. 3127		C113.	32363				
		G. C. C.	950	9.9		01153.	.3:300				
		0; 0;	0:3.	.01200		.02330	31010				
		SCB.	3.780	.01183		. 02580	30980				
		506.	6.25.9	.01200		. 52293	30800				
		506.	069 6	.01510.		.02310	. 306+0				
		-365	13.950	07110.		.01769	05552.				
		-606.	950	.212:0		. 02:60	0 M 1 M .				
			GRADIENT	00013	91000.	¥6000.	97100				

6.48 6.48 6.48 6.48 6.18						
REFERENCE DATA	MCH VEHICLE,	74015+213		(RIN119)	NY 52 1 181	7 OC Z
## 2693.0000 50 FT XMMP  ## 976.0000 IN. XT				PARAMETRIC DATA	DATA	
HACH ALPHA CNBF  999 -14.030 .01910  999 -11.360 .01580  999 -11.360 .01580  999 -3.620 .01570  999 -1.880 .01570  999 -1.880 .01570  999 -1.090 .01580  999 -1.090 .01580  999 -1.090 .01580  999 -1.090 .01580  999 -1.090 .01580  1007 -14.200 .01580  1.047 -14.200 .01580  1.047 -14.200 .01580  1.047 -14.200 .01580  1.047 -14.200 .01580  1.047 -14.200 .01580  1.047 -19.800 .01580  1.047 -19.800 .01450  1.047 -19.800 .01450  1.047 -19.90 .01450  1.047 -19.90 .01450  1.047 -19.90 .01450  1.047 -19.90 .01450			BETA .	000.	ORBINC .	000.
HACH ALPNA CNBF  -999 -14.030 .01910  -999 -14.030 .01730  -999 -1.100 .01620  -999 -3.620 .01620  -999 -1.100 .01470  -999 -1.100 .01470  -999 -1.070 .01580  -999 11.090 .01580  -1.070 .01580  -1.070 .01580  -1.047 -14.580 .01480  -1.047 -14.280 .01480  -1.047 -11.580 .01480  -1.047 -11.580 .01480  -1.047 -11.580 .01480  -1.047 -11.580 .01480  -1.047 -11.180 .01480  -1.047 -11.180 .01480  -1.047 -1.130 .01480  -1.047 -1.130 .01480  -1.047 -1.130 .01480  -1.047 -1.130 .01480  -1.047 -1.130 .01480  -1.047 -1.130 .01480  -1.047 -1.130 .01480  -1.047 -1.130 .01480  -1.047 -1.130 .01480  -1.047 -1.130 .01480  -1.047 -1.130 .01480  -1.047 -1.130 .01480  -1.047 -1.130 .01480	GRADIENT INTERVAL .	VAL = -5.00/	90. 5.00			
. 999 -14.030 011910 01920 0999 011.360 01730 01730 01960 0999 01520 01650 0999 01520 01650 0999 01520 01650 0999 01520 01650 0999 01520 01650 0999 01520 01520 01520 01990 01730 01	0340	3	5			
999 -8.740 0.1680 0.999 999 -8.740 0.1680 0.999 999 -5.190 0.1680 0.999 999 1.280 0.11570 0.999 999 1.280 0.11570 0.999 999 9.1100 0.11570 0.999 9.1200 0.11580 0.999 999 9.11090 0.11580 0.1580 0.999 999 9.11090 0.11580 0.1	60.00	. 12170	45870			
999 -8.740 .01620 999 -5.190 .01620 999 -1.100 .01470 999 1.280 .01500 999 8.810 .01500 999 1.090 .01580 999 1.090 .01580 999 1.090 .01580 10.047 -14.200 .01730 1.047 -14.200 .01730 1.047 -11.280 .01460 1.047 -1.1580 .01460 1.047 -1.1580 .01460 1.047 -1.1580 .01460 1.047 -1.1580 .01460 1.047 -1.1580 .01460 1.047 -1.190 .01460 1.047 -1.190 .01460 1.047 -1.190 .01460 1.047 -1.190 .01460 1.047 -1.190 .01460 1.047 -1.190 .01460 1.047 -1.190 .01460	09160	. 10250	. 45200			
999 - 5.190	. 09330	.09220	.45670			
999 -3.620 01570 999 1.280 01600 999 3.770 01580 999 6.270 01580 999 11.090 01580 999 11.090 01580 999 11.090 01580 999 11.090 01580 1.047 -14.580 01730 1.047 -14.580 01730 1.047 -11.580 017400 1.047 -1.130 019400 1.047 -1.130 019400 1.047 -1.130 019400 1.047 -3.700 019400	04160.	.08590	45240			
999 1.280 01600 0990 0999 1.280 01600 0999 01580 01580 01580 0999 01580 01580 0999 01999	. 08820	.07310	.43020			
999 1.280 0.01600 999 3.770 0.01600 999 1.099 0.01580 999 11.090 0.01580 999 11.090 0.01580 999 11.090 0.01580 68ADIENT 0.0009 487 0 RN/L = 6.58 HACH ALPHA CNBF 1.047 -11.200 0.01580 1.047 -8.860 0.01590 1.047 -3.700 0.01460 1.047 -3.700 0.01460 1.047 -3.700 0.01460 1.047 -3.700 0.01460 1.047 -3.700 0.01460 1.047 -3.700 0.01460 1.047 -3.700 0.01460 1.047 -3.700 0.01460 1.047 -3.700 0.01460 1.047 -3.700 0.01460 1.047 -3.700 0.01460 1.047 -3.700 0.01460 1.047 -3.700 0.01460 1.047 -3.700 0.01460	. 08590	01070.	08614.			
999 3.770 01600 999 6.270 01580 999 11.090 01550 999 11.090 01550 984 10.090 01550 987 11.090 01550 1.047 -14.200 01730 1.047 -14.200 01730 1.047 -8.860 01460 1.047 -8.860 01460 1.047 -8.700 01460 1.047 -9.700 01460 1.047 -9.700 01460 1.047 -1.130 01460 1.047 -1.130 01460 1.047 -1.130 01460 1.047 -1.140 01450	07460.	.07020	.43350			
. 999 6.270 . 01580 . 999 9.810 . 01580 . 999 9.810 . 01580 . 999 9.810 . 01580 . 999 9.810 . 01580 . 999 9.810 . 01580 . 999 9.810 . 999 9.810 9.820 . 999 9.810 9.820 . 999	05450	. 05900	. 42860			
999 9.810 01580 0550 0999 11.090 0.1550 0.15	04190	.05930	.42770			
999 11.090 0.1550 999 -1.070 0.1580  487 0 RN/L = 6.58  HACH ALPHA CNBF 1.047 -11.580 0.1730 1.047 -11.580 0.1730 1.047 -5.260 0.1750 1.047 -5.260 0.1760 1.047 -1.130 0.1760 1.047 -1.130 0.1760 1.047 -1.130 0.1760 1.047 -1.130 0.1760 1.047 -1.130 0.1760 1.047 -1.130 0.1760 1.047 -1.130 0.1760 1.047 -1.130 0.1760 1.047 -1.100 0.1450	.02730	.05270	41900			
-1.070 .01580 -1.070 .01580 -1.070 .01009 -1.047 -14.200 .01730 -1.047 -11.580 .01540 -1.047 -1.1580 .01540 -1.047 -5.260 .01450 -1.047 -5.260 .01460 -1.047 -1.130 .01460 -1.047 -1.130 .01460 -1.047 -1.130 .01460 -1.047 -1.130 .01460 -1.047 -1.130 .01460 -1.047 -1.130 .01460 -1.047 -1.130 .01460 -1.047 -1.130 .01460 -1.047 -1.130 .01460 -1.047 -1.100 .01470	.03650	.05670	. 40350			
GRADIENT	. 08320	06690	.43170			
HACH ALPHA CNBF 1.047 -14.200 .01730 1.047 -11.580 .01540 1.047 -11.580 .01540 1.047 -6.260 .01450 1.047 -3.700 .01460 1.047 -1.130 .01460 1.047 -1.130 .01460 1.047 -1.130 .01460 1.047 -1.130 .01460 1.047 -1.100 .01450	00462	00172	.00034			
ALPHA CNGF -14.200 .01730 -11.580 .01540 -8.860 .01550 -6.260 .01460 -3.700 .01460 11.290 .01440 3.770 .01440 6.320 .01450 8.860 .01390 -1.100 .01430	GRADIENT INTERVAL5.00/ 5.00	VAL = -5.(	30, 5.00			
-14.200 .01730 -8.860 .01540 -8.860 .01450 -6.260 .01460 -1.130 .01460 1.290 .01460 3.770 .01400 6.320 .01390 11.140 .01430	CHEO	ij	ర			
-8.960 .01540 -8.960 .01450 -5.260 .01450 -1.130 .01460 -1.130 .01460 1.290 .01400 6.320 .01400 11.140 .01430	. 10800	. 14030	.47510			
-8.960 .01450 -6.260 .01460 -1.130 .01460 1.290 .01440 3.770 .01440 6.320 .01450 8.960 .01390 11.140 .01430	. 09330	. 12090	47000			
-6.260	. 09320	. 10620	. 46340			
-3.700 .01460 -1.130 .01460 1.290 .01440 3.770 .01450 6.320 .01450 8.860 .01390 11.140 .01470 -1.100 .01430	.09160	04960.	. 45930			
1.290 .01460 3.770 .0140 6.320 .01450 8.860 .01390 11.140 .01470	0:260	. 29180	.45470			
3,770 .0140 6,320 .01450 8,860 .01390 11,140 .01470 -1,100 .01430	. 09090	08060 .	09644.			
3.770 6.320 8.860 11.140 -1.100	07340	. 08500	.44700			
6.320 8.860 11.140 -1.100	. 05+90	.07380	.43770			
8.860 11.140 -1.100	081±0°.	.07210	.43290			
11.140	80.48°.	.07210	. 42300			
-1.100	. 03280	06740	06+14.			
	. 08530	. 09783	07675.			
GRADIENT00008	00530	00240	00216			

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		TABILA	TABULATED SOURCE DATA.		MSFC THT 622 (!A!25	(!A:25)				PAGE 1	154
		) 18 18	74T 622 '	7.1A1251 C	MSFC THT 622 (1A125) LAUNCH VEHICLE, THOTS-213	£12+5±0%.		(6; (Nib)	_	25 x2x 25	^
REFERENCE DATA								PARAMETRIC DAT	: DATA		
XX	0 00 X	976 2	X 7 0000				BETA •	000	00814C	•	.000
1	2	400.000						3			
-	PCN NO.	3 / <b>6</b> %	PN/L	6.65	GRADIENT INTERVAL *		-5.00/ 5.00				
	-	HACH	ALPHA	CAGF	Ü	Š	5				
		101.1	065 11	.01730		. 16250	. 4B660				
		:::	-11.750	.01550		.14270	.48333				
		1.101	C20 6-	07470.		06-2:	. 48190				
		: :::	-6.433	03460	07783. 0	056117	36574.				
			-3 800	C1710.		.11503	.47:60				
		::	-1.200	SE 13.		. I 1240	. 45553				
		:: ::	1.280	.01380	•	2553:	0.4584C				
		1.101	3.775	.51383		09060.	0/644.				
		::::	5.350	.01370	•	.083:2	ひたられず、				
		10:1	6:8:3	CEE:5.		.67530	C+62+.				
		5	11, 220	E . C .		g:8F0.	C68:1				
		53	02: 1-	604.0	03950. 0	00.01.	01594				
			GRAD:ENT	53539		₩5200	-,00289				
7	₹ 8	20/0	R*17.	6.72	GRADIENT "NTERVAL =	ERVAL5.00/	00/ 5.00				
	_	HOYN	AL PHA	76V.)	CHEO	ä	*				
		<u>.</u> م	14 730	.01690	06211. 0	. 17350	. 49650				
		<b>6</b> 4∵.−	-18 600	.01560		. 15550	60264.				
		e 1.	-9.200	.01530	·	G. : 4 i ·	C+064.				
		ው ታ 	-5 519	in T	09280	.:3200	69284.				
		6*:::	-3.870	31480		::285:	.47570				
			-1.223	07370		.:2570	51364.				
		6+: .	1 300	09210.		1,12333	.46550				
		0 ± 1 · 1	3.823	03410.	C+780. 0	000000000000000000000000000000000000000	04194				
		941.1	6.453	01390		C2660.	06454				
		5 *: -	6.993	05410.	0.00520	C8+80.	02244				
		5	11.350	06410	•	.083:0	.43570				
		O 7	-1.:53	.01330		.:2070	.46319				
			CRAD!ENT	-, 0000	6,00679	-,60228	00188				

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1.2 CCO 1.9 ECC 1.3 B70 1.1 R20 1.1 R2

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TABULATED SOURCE DATA, MSFC THT 622 (IA125)	MSFC THT 622 (14(25) LAUNCH VEH. (15, 740'5-2)3
DATE 06 OCT 75 TA	

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PAGE 155

1 25 JUN 75 1 ORBINC . PARAMETRIC DATA 665 ALPHA -976.0000 IN. XT .0000 'N. YT 400.0000 IN. ZT REFERENCE DATA 2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES SREF . SCALE .

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HACH	BETA	5	O¥C	3	5
. 800	-11.400	.01390	.03320	.06530	30440
.800	-9.270	.01250	.03290	.05140	.30360
.800	-7.010	. 01200	.03220	. 05693	.30280
.800	-4.790	.01180	.03:10	06050.	. 29950
. 800	-2.550	.01150	0.2940	04940.	. 29920
. 830	310	.01120	07850.	.03910	. 292:0
.800	1.883	.01179	0.0251€	. 03290	. 29803
. 800	4.090	.01220	. 02290	CB:ED.	. 30270
.833	6.340	.01270	. 32::0	. 02560	.3056
800	8.603	.0:330	.0:759	. 02350	.30590
. 900	10.650	.01370	.01390	. 22:90	.30582
. <del>9</del> 33	310	01110.	0.8840	03220	05-76-
	CRADIENT	40000	00093	05229	.00023

CA .33780 .34140 .33860 .33860 .31740 .32740 .32690 .32690 .32690 .33810 .31810 GRADIENT INTERVAL + -5.007 5.00 CHE1 . 07190 . 06030 . 05139 . 02190 . 02180 . 00360 . . 00110 . 02430 . 02430 CHED .03990 .03990 .03740 .03760 .03360 .01210 .00390 .00390 CNBF 01280 01280 01280 01280 01280 01280 01280 01280 01180 01180 01180 6.23 9E7A -11.660 -9.470 -7.170 -2.600 -2.600 -300 -1.940 4.190 6.450 6.450 6.450 10.910 -330 -330 RN/L 0 3 ₹ ¥0.

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MSFC THT 622 (IA125) LAJACH VEHICLE, 740TS+213

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(RINI20) (25 JUN 75 )

PARAMETRIC DATA

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2690.0000 SQ. FT 1290 3000 INCHES 1290.3000 INCHES 0040

REFERENCE DATA

GRADIENT INTERVAL + -5.007 5.00

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GRADIENT NTERVAL - -5. 6.52

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BETA -12.150 -9.810 -7.370 -2.020 -2.020 -2.020 -2.020 -2.020 -2.020 -2.020 -3.

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0.097 0.1730 0.1730 0.1650 0.1

##\$C TAT 622 (14.25) LAMACH VEHICLE, TAG'S-213 (41.812) 1.63 JAN 7  ***REFRENCE DATA**  ***REFRENCE DATA**	DATE 06 OCT	oc1 75		1 A B.	TABULATED SOURCE DATA,		MSFC THT 622 (1A125)	(S21V)			PAGE	: 157
### PROPRIENCE DATA  ** 2890.0000 50, FT   X**PR * * * * * * * * * * * * * * * * * *				¥	3FC THT 622	(fa:25) LAU	NCH VEHICLE,	212+51044		( vivi		ž Š
FAM NO. 53. O RAVE - 6.63 GRADIENT INTERVAL5.007 5.00  RAM NO. 53. O RAVE - 6.63 GRADIENT INTERVAL5.007 5.00  RAM NO. 53. O RAVE - 6.63 GRADIENT INTERVAL5.007 5.00  RAM NO. 53. O RAVE - 6.63 GRADIENT INTERVAL5.007 5.00  1.251 - 2.580		REFERENCE DA	4							PARAMETR10	: DATA	
MACH   BETA   CHEC   CHEC   CA   CA   CHEC   CA   CA   CA   CA   CA   CA   CA	SPEF BREF SCALE	2690.0000 1290.3000 1290.3000	\$ \$ £ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						SPOILR .	000.		000.
1.651   -12.180   -10.1840   -1.01840   -1		-	ج ج	ř.	PN/L	3	RADIENT INTE	_				
1.25  -9.980				 	-12.380	01510.	01920	.15290	.47380			
1.25  -5.090   0.0140   0.0140   0.1420   0.4230   0.42				1.25	-9.980	.01490	01780	. 14830	06574.			
1.25  -2.690   0.01400   0.00910   13590   0.46950   0.49550   0.6550   0.11950   0.66550   0.11950   0.49550   0.66550   0.11950   0.46950   0.49550   0.66550   0.11950   0.46950   0.49550   0.66550   0.11950   0.49550   0.66550   0.11950   0.49550   0.66550   0.11950   0.49550   0.66550   0.11950   0.49550   0.49550   0.66550   0.11950   0.66550   0.11950   0.49550   0.				1.25.	-5.080	01400	07700	1+390	.47230			
1.25 370					-2.690	.01400	.00810	13590	. 46963			
## FEFRENCE DATA    1.251   4702				Ę.	3:0	.01390	. 02:20	.12790	CSASA.			
## FEFERICE DATA  - 2690, 1000 50, 1150 0.0940 0.11690 0.47650  1,251 1,252 1.200 0.1350 0.0940 0.1950 0.47650  1,252 1.200 0.1360 0.0940 0.1950 0.49650  1,253 1.201 0.0082 0.47650  1,253 1.202 0.1360 0.1360 0.1950 0.49650  - 300 0.1360 0.1360 0.1360 0.1360 0.1360 0.1360  - 2690, 1000 50, FT XMRP = 976,0000 IN: XT SPOILR = 7,000 0RBINC = 80,000  - 1290, 3000 INCHES ZMRP = 400,0000 IN: XT SPOILR = 7,000 5.00  - 1290, 3000 INCHES ZMRP = 400,0000 IN: XT SPOILR = 7,000 5.00  - 1290, 3000 INCHES ZMRP = 400,0000 IN: ZT SPOILR = 7,000 5.00  - 1290, 3000 INCHES ZMRP = 400,0000 IN: ZT SPOILR = 2,000 5.00  - 1290, 3000 INCHES ZMRP = 190,000 IN: ZT SPOILR = 2,000 5.00  - 1290, 3000 INCHES ZMRP = 190,000 IN: ZT SPOILR = 2,000 5.00  - 1290, 3000 INCHES ZMRP = 400,0000 IN: ZT SPOILR = 2,000 5.00  - 1290, 3000 INCHES ZMRP = 400,000 IN: ZT SPOILR = 2,000 5.00  - 1290, 3000 INCHES ZMRP = 400,000 IN: ZT SPOILR = 2,000 5.00  - 1290, 3000 INCHES ZMRP = 400,000 IN: ZT SPOILR = 2,000 5.00  - 1290, 3000 INCHES ZMRP = 400,000 IN: ZT SPOILR = 2,000 5.00  - 1290, 3000 INCHES ZMRP = 400,000 IN: ZT SPOILR = 2,000 5.00  - 1290, 3000 INCHES ZMRP = 400,000 IN: ZT SPOILR = 2,000 5.00  - 1290, 3000 INCHES ZMRP = 400,000 IN: ZT SPOILR = 2,000 5.00  - 1290, 3000 INCHES ZMRP = 400,000 IN: ZT SPOILR = 2,000 5.00  - 1290, 3000 INCHES ZMRP = 400,000 IN: ZT SPOILR = 2,000 5.00  - 1290, 3000 INCHES ZMRP = 400,000 IN: ZT SPOILR = 2,000 5.00  - 1290, 4000 IN: ZT SPOILR INTERVAL = -5,000 5.00  - 1290, 4000 IN: ZT SPOILR INTERVAL = -5,000 5.00  - 1290, 4000 IN: ZT SPOILR INTERVAL = -5,000 5.00  - 1290, 4000 IN: ZT SPOILR INTERVAL = -5,000 5.00  - 1290, 4000 IN: ZT SPOILR INTERVAL = -5,000 5.00  - 1290, 4000 IN: ZT SPOILR INTERVAL = -5,000 5.00  - 1290, 4000 IN: ZT SPOILR INTERVAL = -5,000 5.00  - 1290, 4000 IN: ZT SPOILR INTERVAL = -5,000 5.00  - 1290, 4000 IN: ZT SPOILR INTERVAL = -5,000 5.00  - 1290, 4000 IN: ZT SPOILR INTERVAL = -5,000 5.00  - 1290, 4000 IN: ZT SPOILR INTERVAL = -5,000 5.00  - 1290, 4000 IN: ZT SPOILR INTERVAL = -5,000 5.00  - 1290, 40				£ 5	. doo	001390	.03350	00511.	. 46850 0.15E			
1.25   1.26   0.1570   0.6250   0.47670   0.47670   0.				C K	6.790	01500	05860	0670	04574			
1.25    1 .60    .01360   .02460   .11930   .45690   .45690   .11930   .45890   .45890   .45890   .24890   .24890   .24890   .24890   .24890   .24890   .24890   .24890   .24890   .24890   .24890   .24890   .24890   .24890   .24890   .24890   .24890   .24900   .24890   .24890   .24890   .24900   .24890   .24900   .24990   .24990   .24990   .24990   .24990   .24990   .24990   .2490   .24990   .24				. 25	9.260	01570	.06310	. 08820	. 4.0050			
1.251300 .01350 .02460 .11930 .46280   .46				1.25:	11.603	.01583	.06250	.08270	.476:0			
### GRADIENT .0000% .0052:0048; .00053  #################################				1.251	300	.01360	. 62450	.:1930	. 46280			
#\$FEFENCE DATA    REFERENCE DATA   PARAMETRIC DATA					GRADIENT	*0000·	.0052:	00%	.00053			
## EFERENCE DATA    PARAMETRIC DATA   PARAMETRIC DATA   PARAMETRIC DATA				£	FC THT 622	(TA125) LAU	NCH VEHICLE.	7707415+21	<b>.</b>	S.N.S.		ž Č
## 2690.0000 \$0. FT XMSP = 976.0000 IN. XT SPOLER =		REFERENCE DA'	ΤĀ							PARAMETRIC	DATA	
15/ 0 RN/L = 5.93 GRADIENT INTERVAL = -5.00/  HACH ALPHA CNBF CA  .798 -4.710 .01250 .30490  .798 -2.470 .01250 .3030  .798 -2.470 .01250 .29990  .798 1.920 .01190 .29990  .798 4.180 .01170 .29070  .798 6.410 .01240 .30820	SPEF BREF SCALE .		XHRP YHRP ZHRP	<b>1</b> 00	<u>z z z</u>	<b>.</b>			œ	.000		.000
ALPHA CNBF -6.890 .01370 -4.710 .01260 3 -2.470 .01250270 .01180 4.180 .01170 6.410 .01240		•	PUN NO.		38/1		RADIENT INTE					
-6.890 .01370 -4.710 .01260 -2.470 .01250 270 .01190 1.920 .01190 4.180 .01180 6.410 .01180					MACH	ALPHA	See	ర				
-2.70 .01260 -2.470 .01250 270 .01190 1.920 .01180 4.180 .01180 6.410 .01180					967.	-6.890	.01370	.31200				
7.4.70 .0150 1.920 .01190 1.920 .01190 4.180 .01170 6.410 .01180					86. 86.	-4.710	.01260	30490				
1.920 .01180 4.180 .01170 6.410 .01180 270 .01240					B 6	0/4.9	96.10	05505				
4.180 .01170 6.410 .01180 -270 .0510					 	1.920	01180	29610				
6.410 .01180 270 .01240					967.	4.180	07110.	0.095				
0.21001240					. 798	6.410	.01180	.28170				
					.798	270	.01240	.30820				

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DATE D6 OCT 75	TABULATED SOUPCE DATA, MSFC TWT 522 (TA125)	<b>PA</b> G
	MSFC THT 622 (1A125) LAUNCH VEHICLE, 77074TS+213	CRINI21) (19 &
PEFERENCE DATA	PARA-ETRIC DATA	C DATA
SAEF = 2690,0000 SQ, FT XHRP LREF = 1290,3000 INCHES YHRP BREF = 1290,3000 INCHES ZHRP SCALE = .0040	YMRP = 976.0000 IM. XT       BETA = .000         YMRP = .0000 IM. XT       SPOILR = 20.000         ZMRP = 400.0000 IM. ZT	200 200 200
RUN NO.	RUN NO. 16/ C RN/L . 6.27 GRADIENT INTERVAL5.00/ 5.00	

600.

PAGE 158

										5.93										
ర	. 35620	.35190	. 34330	.34390	. 32530	. 32050	.3:970	. 34280	2035!	GRADIENT INTERVAL = -5.007	2	.44190	. 43470	0+L24.	05144.	.42510	. 43550	05614.	07614.	00003
Š	.01470	03710	.01370	01370	.0:293	.01290	01310	C+E:0:	F:000:-	NOIENT INTER	CNBF	.01510	. 21450	.01390	024:0.	01410.	.01500	.01430	.01330	+0000.
AL PHA	-7.010	14.740	-2.5:0	0-5	1.950	. 100 . 100	6.5:0	2.5.1	GPAD15%7	6.52 GRJ	Ynd Y	-7.050	-4.750	10.40	. 193	P. 040	. WOO	6.610	200	CRADIENT
FACE	168	. 897	1997	<u> </u>	t tr	t th	. 897	t con		- 1 / X	I U I	986	960	965	966.	966	965	906.	956	
										18/ 0										
										RCN NC.										

5.00										
NAL = -5.00/	٧	.48680	.48150	.47750	07074.	.46030	.45830	06644	06694	00279
GRADIENT INTERVAL .	SONO	.0350	.01660	.01630	.01580	.01530	.01600	.01590	.0:550	61000
6.62	ALPHA	JC0. C-	-4.750	-2.440	180	2.100	4.350	6.693	-, 193	GRADIENT
RAVE.	MACH	670.1	640.4	640.1	1.049	1.049	1.049	6.0	1.949	
19/ 0										

PS NO.

DATE 06 OCT 75		•	ABUL)	TED SOUR	TABULATED SOURCE DATA,	MSFC TWT 622 (1A125)	(1A125)			PAGE	159
			£	THT 628	(1A125)	MSFC THT RRE (TALES) LALMON VEHICLE, 7707475+213	. 77074TS+Z	E.	(RINIE)	MC 61 1 119	ا الا
REFERENCE DATA	₹								PARAMETRIC DATA	DATA	
SREF = 2690.0000 SO. FT LREF = 1290.30PJ INCHES BREF = 1290.300U INCHES SCALE = .00+0	desix		976.0000 0700. 0000.004	z z z	***			BETA .	. 30,05	ORBINC .	000.
œ	PEN NO.	2	20/02	78€ F	6.71	GRADIENT INTERVAL .		-5,00/ 5.00			
				HACH		<b>19</b>	క				
				1.103			.50430				
				201.1	008.4-	01680	02664.				
				: : : C3			00084				
				1.103			. 48310				
				1.103			.47560				
				1.103	6.720	04910.	.46590				
				1.103	180	0.01640	04164.				
					CARDIENT	10000	00257				
č	PCN NO.	21/0	0	W.	6.73	GRADIENT INTERVAL =	RVAL = -5.00/	00/ 5.00			
				MACH	AL PHA	CNBF	3				
				1.146	-7.240	07710.	.51290				
				3.146	-4.850		.50850				
				1.15	-2.470	.01770	.50710				
					-, 140		. 50220				
				<b>9</b>	2.140		49430				
				٠ 	4.430		08684				
					6.770		03683				
					GRADIENT	.00003	0.506.				
æ	PCN NO.	17/ 0	0	#W/L	6.70	GRADIENT INTERVAL	700 9-				
				, ;				9.6			
				E .	ALPHA	•	ర				
				Ĉ.	-7.300		08/64				
				Q i	-4.900	.01720	0.48070				
				Č i	-2.510	.01690	, <b>4</b> 8890				
				χ.	150	.01690	. 48850				
				Š.	S. 140	.01690	06+84.				
				 	4.460	.01690	. 47840				
				χ χ Κ. Υ	6.790	.01720	01524				
				Ç	123.046.7	05910.	.48470				
						50000	00122				

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

DATE 06 OCT	27 73		•	TABULATED SOURCE DATA.		MSFC THT 622 (1A125)	:A:25:		PAGE	160
				MSFC TAT 622	622 (1A125) LAUNCH VE-ICLE, 7707415+213	H VEHICLE.	7707415+213	(161212)	MY 61 ) (12	ء الا
	REFERENCE DATA	4						PARAMETR!C	C DATA	
SACF - SALE	2690.0000 SQ. FT 1290.3000 !NCHES 1290.3000 !NCHES .CO+0			77. WI 0000 07. XT	*** ***		BETA SPOILR -	. 050 20.050	0481NC •	oco.
	œ	\$	*	41/ 0 PN/L +	6.62 GRA	GRADIENT INTERVAL	PVAL5.00/ 5.00			
				HACH	ALPHA	<b>693</b>	₹.			
				1 459	-7.340	.01380	. 46230			
				1 459	016.4-	.01330	0.45640			
				907·	-2.530	.01300	たののよの			
				1 459	:60	.01290	. 45320			
				63	₽. : 70	.01293	Cabar			
				1 459	5,473	.01283	CSL++.			
				1.59	6.800	3.250	0.337			
				1.59	6 6 1	C#6:0:	CECU.			
					CRAC'ENT	10000 F	50:00 ·			
				MSFC THT 622 (TA125) LAUNCH VEHICLE,	(TA125) CAUNC	H VEHICLE.	£12+5.7L0.4	(R1N122)	25 NUC 61 i 155	20,00
	REFERENCE DATA	<						PARAMETRIC DATA	C DATA	
								!		
- 3865 - 1865	2690.0000 SQ FT 1290.3000 INCHES			976.0000 IN. XT	<b> -</b>  -		BETA - SPOILR -	.000	ORBINC .	000
BAEF =	1290 3000 INCHES	Z -490	,	400.0000 IN. ZT	•					
	œ	<b>3</b> €	ĕ.	39/ 0 RN/L .	6.05 GRA	GRADIENT INTERVAL	RVAL5 00/ 5.00			
				HOM	ALPHA	800	4			
				964.	-6.910	.01290	. 32320			
				7.98	-4.720	01510.	. 32090			
				798	764.5-	.01200	. 32080			
				798	283	0+110.	.31720			
				. 798	1.913	071107	.3:360			
				99t.	4.173	361:0.	£80£.			
				961.	5 380	.01222	€5862.			
				799	- 290	.0:150	.3:790			
					CAADIENT	00033	4,100,1			

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	(RINI22) (19 JAN 75)	DAT	ORB:NC			
	INIS	TRIC	900	60		
	Ē	ARAHETRIC DATA	Ģ	40.303		
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		¥	MSFC THT 622 1	622 ('A!25' LAUM	CH VEHICLE.	LAUNCH VEHICLE, 7707475+213		(RIN122)	NOT 61 ) (2)	i,
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24, 0 RN/L	24, 0 RN/L = 6.57 GRADIENT INTERVAL = -5.00/ PACH BETA CNBF CA .997 -6.530 .01340 .41810 .997 -4.390 .01210 .40530 .997 -2.230 .01200 .40720 .997 -1100 .01260 .40760 .997 -1150 .01370 .40360 .997 -1150 .01380 .41760 .997 -1100 .01260 .41760 .997 -1100 .01260 .41760 .997 -1100 .01260 .41760	24, 0 RN/L				406.	6.270	01440	.35530			
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-6.530 .01340 -4.390 .01210 -2.230 .01200 -100 .01260 -2.020 .01270 -150 .01390	-6.530 .01340 .418106.530 .01210 .405302.230 .01210 .407202.230 .01220 .40720 .40720 .40720 .40720 .40720 .40750 .01390 .41760100 .01250 .41720	997 -6.530 .01340 .41810 997 -4.390 .01210 .40530 .597 -2.230 .01210 .40530 .997100 .01260 .40720 .997100 .01370 .42790 .997100 .01360 .41760 .997100 .01250 .41260 .997100 .01260 .41760 .997100 .01260 .41260 .997100 .01260 .41260 .997100 .01260 .41260 .997100 .01260 .41260				HACH	BETA .	CNBF	₹3			
100 . 01210 100 . 01200 100 . 01260 2. 020 . 01270 4. 150 . 01390	-4.390 .01210 .40530 -2.230 .01200 .40720 100 .01220 .41780 200 .01220 .42360 150 .01390 .41760 100 .01250 .41220 GRADIENT .00016 .00186	.997 -4.390 .01210 .40630 .997 -2.230 .01200 .40720 .997 -2.100 .01260 .40360 .997 -2.020 .01370 .40360 .997 -2.100 .01390 .41760 .997 -2.100 .01250 .41260 .997 -2.100 .01250 .41260 .997 -2.100 .01250 .41260 .997 -2.100 .01250 .41260 .997 -2.100 .01250 .41260 .997 -2.100 .01250 .41260				.997		01340	01817			
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2.020 .01260 2.020 .01220 4.150 .01370 6.300 .01390	100 .01260 .41780 2.020 .01220 .40360 4.150 .01370 .42790 6.300 .01390 .41760 100 .01250 .41220 GRADIENT .00016	.997100 .01266 .41780 .997 2.029 .01220 .40360 .997 4.150 .01370 .42790 .997 6.300 .01390 .41760 .997100 .01250 .41220 .997 GRADIENT .00016 .00186				. 597		.01200	.40720			
2.020 .01220 4.150 .01370 6.300 .01390	2.020 .01220 .40360 4.150 .01370 .42790 6.300 .01390 .41760 100 .01250 .41220 GRADIENT .00016 .00186	.997 2.029 .01220 .40360 .997 4.150 .01370 .42790 .997 6.300 .01390 .41760 .997100 .01250 .41220 .987 GRADIENT .00016 .00186 .237 0 RN/L 6.66 GRADIENT INTERVAL -5.00/				. 997		.01260	08/14			
4.150 .01370 6.300 .01390	4.150 .01370 .42790 6.300 .01390 .41760 100 .01250 .41220 GRADIENT .00016 .00186	.997 4.150 .01370 .42790 .997 6.300 .01390 .41760 .997100 .01250 .41220 .08ADIENT .00016 .00186 .237 0 RN/L 6.64 GRADIENT INTERVAL -5.00/				766.		.01220	.40360			
6.300 .01390	6.300 .01390 .41760 100 .01250 .41220 GRADIENT .00016 .00186	.997 6.300 .01390 .41760 .997100 .01250 .41220 GRADIENT .00016 .00186 237 0 RN/L = 6.64 GRADIENT INTERVAL = -5.007				766.		.01370	.42790			
	CRADIENT . 00016 . 00186	.997100 .01250 .41220 GRADIENT .00016 .00186 23/ 0 RN/L = 6.64 GRADIENT INTERVAL = -5.00/				.997		.01390	.41760			
100 .01250	ENT .00016 .00186	GRADIENT .00016 .00186 23/ 0 RN/L • 6.6% GRADIENT INTERVAL • -5.00/				1997		.01250	.41220			
91000.	1	23/ 0 RN/L . 6.6% GRADIENT INTERVAL5.00/					GRADIENT	91000.	.00186			

CA .46820 .46870 .46540 .46560 .46560 .46560 .46560

. 01540 . 01520 . 01520 . 01500 . 01510 . 01510 . 01550 - . 00000

BETA -6.560 -4.410 -2.240 -1.00 2.020 4.160 6.330 -100 GRADIENT

TABILLATED SOURCE DATA, MSFC THT 622 (1A125) DATE 06 OCT 75

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MSFC THT 622 (1A125) LAUNCH VEHICLE, 77074TS+213

(RINI23) ( 19 JUN 75 )

PAGE 155

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PARAMETRIC DATA

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ALPHA -SPOILR -

976.0000 IN. XT .0000 IN. YT 400.0000 IN. ZT

SREF = 2690,0000 SQ. FT LREF = 1290,3000 INCHES BREF = 1290,3000 INCHES SCALE = .00%0

REFERENCE DATA

GRADIENT INTERVAL . -5.007 5.00 6.70 22/0 PCN NO.

CNBT 01670 01530 01590 01510 01630 01630 01630 01570 01530 -.110 2.032 4.180 6.360 -.103 GRADIE4T 66.620 -4.450 -2.260 HACH 1.105 1.105 1.105 1.105 1.105 1.105

6.77 GRADIENT INTERVAL - -5.00/ 5.00 RN/L . ć ₹ 8

CA .40440 .47300 .47740 .47740 .48190 .48340 .46800 CNBT 0.005:10.00 BETA -6.700 -2.490 -2.280 -110 2.060 4.230 6.440 -110 GRADIENT 

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747 622 (1A125)	LALMCH VEHICLE, 7707475+213			GRADIENT INTERVAL .	C 486	0.830	0 7 61 7 0 7	00	16:.0	.31233	COM CO	.0::80	-0000	GRADIENT 'NTERVAL +	5640	0:480	00 # 00	C 3 3 4 C	C) M) C)	ÇI M D	0.350	n , ,	\$5000 # 0	GRADIENT INTERVAL	<b>36.</b> C	. 3: 390	5. B.C.	.2:530	03810	C1510.	.0:590	2:632	0.050	# 0 0 0 0
SATA, MSFC	JAIPS) CACN			6.04 GR	B£7A	-6.45g	- 193 - 193	00:1	2000		5.2:0	- : : 63	GRAD! ENT	6.35 68,	BETA	-5.530	380	-2.233	G 50.	<b>2</b> .023	<b>₹</b> . ±050	6.275	080	6.65 04,	9£1A	-6.630	CE 7. 7-	-2.253	103	8.0:0	4,159	6 343	60:	GRAD!ENT
TED SOUPCE	*** 622 '1A125		TX .M1 0000.	• 7/Na	FACH	908. 909.	. ec.	80B.	40B.	909 909	523.	63S		PN.	T V	868	(h) (h) (h)	668	e t 9	60.8B	65.8	656	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		MACH	Q 40	670.1	のナン: 	6,0.	<b>6</b> *C	6. 	B+0 - 1	0.0.1	
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		<b>*</b>		₹ 9										₹										3										
DATE 05 00" "5		REFERENCE DATA	SAEF - 2690 0000 50. FT LAEF - 1290.3000 'ACHES BAEF - 1290.3000 'ACHES SCALE - 0040																															

TABULATED SOURCE DATA, MSFC THT 522 (14:25) DATE 06 OCT 75

MSFC THT 622 (14125) LAUNCH VEHICLE, 7707415+213

(RIN124) 1 19 JUN 75

PAGE 167

PARAMETRIC DATA

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976.0000 IN. XT .0000 IN. YT VO.000.000 X

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SPEF = 2690.0000 SQ FT 1 LREF = 1290.3000 !NCHES 1 BREF = 1290.3000 !NCHES 2 SCALE = ...

REFERENCE DATA

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6.72 GRADIENT INTERVAL . -5.00/ 5.00 - Y 36 36 . ₹

CNBF .01430 .01430 .01450 .01460 .01460 .01460 .01460 BETA -6.640 -2.450 -2.270 -.110 -.110 -.163 5.360 -.110 GRADIENT HACH 1.103 1.103 1.103 1.103 1.103 1.103 1.103

6.78 GRADIENT INTERVAL - -5.00/ 5.00 PN'L. 30/0 PUN NO.

CA .50630 .50180 .49760 .49760 .50050 .50050 .500400 .500400 01750 01730 01730 01730 01700 01730 01730 01770 9ETA -6.690 -4.480 -2.290 -1.10 -2.050 -2.20 6.440 6.440 6.440 HACH 1.252 1.252 1.252 1.252 1.252 1.252 1.252 1.252

000. PAGE : 58 56 NOC 61 ) (521N18) .000 089!NC . PARAMETRIC DATA BETA - SPO!LR -GRADIENT INTERVAL + -5.007 5.00 MSFG TWT 522 (1A125) LAUNCH VEHICLE, 7707475-213 TABULATED SOUPCE DATA, MSFC THT 622 (1A)25) ALPHA -6.890 -4.700 -2.460 -.260 -.360 -.300 6.430 5.97 TX .W1 0000.0FB TY .W1 0000. .. 2 . 20. ≥20. AEFERENCE DATA 2690 3000 50 FT 1290 3000 WCHES 1290 3000 WCHES DATE 96 0CT 75 SREF - LREF - BREF - SCALE -

GRADIENT INTERVAL - -5.007 5.00 6.32 - .1/NG ٥ د و ₽\$₽ •

-.250 GRAD:ENT

GRADIENT INTERVAL . -5.007 5.00 ALPHA -7.030 -4.740 -2.440 -7.210 -7.210 -7.210 -7.210 -7.210 6.28 RN/L . o ;

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DATE 06 OCT 75

PAGE 169 (RIN;25) ( 19 JUN 75 MSFC THT 622 (!A125) LAUNCH VEHICLE, 7707415+213 32 (!A125) REFERENCE DATA

PARAMETRIC DATA

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OPBINC .

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976.0000 :N. XT .0000 :N. YT 400.0000 :N. Z\* 2690.0000 SQ. FT 1290.3000 INCHES 1290.3000 INCHES .00%0

SPEF . LPEF . BPREF . SCALE .

BETA .

GRADIENT INTERVAL . -5.00/ 5.00 6.39 9 9

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CA 46570 46510 46010 45010 45010 45080 45080 45080 45080 45080 .01630 .01610 .01640 .01570 .01500 ALPHA -7.070 -2.430 -170 2.170 2.370 6.690 6.690 GRADIENT

GRADIENT INTERVAL . -5.00/ 5.00 0 ò F. N.

CA . 47360 . 46800 . 46330 . 45140 . 45170 . 45750 . 00182 06510. 06510. 09510. 09510. 06510. 06510. ALPHA -7.120 -2.470 -190 2.100 4.370 6.700 -180 GRADIENT 

GRADIENT INTERVAL . -5.00/ 5.00 6.60 0 // FEN KO

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CNBC	.01770	01740.	.01720	.01690	.01690	.01730	.01720	01710.	2000
ALPHA	-7.250	-4.890	-2.510	160	2.130	4.430	6.770	160	COACICAT
HACH	1.160	1.160	1.160	- 	1.160	1.160	1.360	1.160	

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DATE 06 OCT 75

TABULATED SOUPCE DATA, MSFC THT 522 (TAI25)

MSFC THT 622 (14125) LAUNCH VEHICLE, 7707415+213

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SPEF = 2690 0000 SQ FT LPEF = 1290 3000 NCHES BREF = 1290.3000 NCHES SCALE = .0040

REFERENCE DATA

GRADIENT INTERVAL - -5.007 5.00

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CA + 48390 - 47920 - 47970 - 478300 - 47830 - 47830 - 47830 - 47830 -

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6.5; GRADIENT NITERVAL = -5.007 5.30

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4, 1944 4, 1940 6, 1940 6, 1940 6, 1940 6, 1940 6, 1940 6, 1940 6, 1940 6, 1940 6, 1940 6, 1940 6, 1940

TABULATED SOURCE DATA, MSFC TWT 622 (14125)	
TABULATED SOURCE	
DATE 06 OCT 75	

PAGE 171

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(RINI26) ( 19 JUN 75	DATA	ORBINC -											
SINI &	PARAMETRIC DATA	000.											
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H VEHICL			DIENT IN	900	.01330	.01260	.01250	.01210	.01220	.01270	.01340	.01200	- 0000
A125) LAUNC			5.98 GRA	BE 7.A	-6.450	-4.320	-2.210	100	€.000	4.100	6.210	100	TNUTCAGO
MSFC THT 622 (IA125) LAUNCH VEHICLE, 7707475+213		976.0000 IN. XT .0000 IN. YT TY .NI COOO	RN/L	MACH	₹8	₹08.	•00€	<b>₽</b> 08.	¥08°	<b>₩</b> 28.	+08.	¥28.	
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	¥.	XHRP YHRP ZHRP	PCN NO.										
	REFERENCE DATA	0000 SG. FT 1000 INCHES 1000 INCHES 1040											
	Œ	2690.0000 1290.3000 1290.3000											
		SCALE .											

GRADIENT INTERVAL - -5.00/ 5.00

6.29

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PUN NO.

404 909 909 909 909 909 909

-5.00/ 5.00 CA 33440 33150 33150 33150 33170 33370 33640 36540 GRADIELT INTERVAL -CABT . 01480 . 01410 . 01850 . 01850 . 01850 . 01840 . 01840 BETA -6.500 -7.350 -7.100 2.100 6.260 6.260 0.260 CRADIENT 6.42 11.0 **S 3** 

CA 2524.0 24204.0 24204.0 24204.0 24204.0 24204.0 24204.0 24204.0 242000.0 24200.0 24200.0 24200.0 24200.0 24200.0 24200.0 24200.0 24200.0 24200.0 24200.0 24200.0 24200.0 24200.0 24200.0 24200.0 242 BETA -6.540 -7.400 -2.220 -110 2.020 4.150 6.300 -100 GRADIENT 

GRADIENT 'NTERVAL = -5.007 5.00  CNON CAST  OFFICE CAST	#\$FF FERCE CATA  #\$FF F	#EFFENCE DATA  #EFFENCE DATA  #E850 2000 5G FY AMPRIL # 1000 1N, XT  # 1290 3000 14CmES AMPRIL # 1000 1A, XT  # 1290 3000 14CmES AMPRIL # 1000 1A, XT  # 1290 3000 1A, XT  # 1290	DATE 06 OCT 75		TABAT	TABULATED SOUPCE DATA.		45FC THT 522 'A125	'A'25)		39 <b>Yd</b>
### ### ##############################	## FEFFENCE DATA  ## CESSO 2000 SG F** AFPP ** 976 COOC 13. ** 7* ** COOC 30. ** COO	### PREFENCE CATA  ### PESSO 0000 SG FT AMPRO			i i	1 - NT 522	1. A. 25A.	MOH VEH CLE,	512-51-6666	N (G)	35 (19 JAN 78
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000 (RINI26) ( 19 JUN 75 ) PAGE 173 ORBINC . PARAMETRIC DATA 000. ALPHA . GRADIENT INTERVAL . -5.007 5.00 GRADIENT :NTERVAL - -5.007 5.00 MSFC TWT 622 (14:25) LAUNCH VEHICLE, 77074TS+213 CA 4.556.0 CA + 48590 + 48140 + 47530 + 47530 + 48130 + 48300 + 4620 + 77620 TABULATED SOURCE DATA, MSFC THT 622 (1A125) 0.000 CNBF 0 100 0 1450 0 1360 0 1360 0 1360 0 1360 0 1410 0 1410 0 1410 BETA -6.680 -7.500 -7.270 -1.000 -7.6000 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.6000 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.6000 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.6000 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.6000 -7.6000 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.6000 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.600 -7.6 9ETA -6.700 -2.280 -.090 -.090 -.090 -.100 -.100 6.62 9.9 976.0000 IN. XT .0000 IN. YT 400.000.000 IN. ZT HACH 1.253 1.253 1.253 1.253 1.253 1.253 1.253 PN'C . . . . . 12, 0 43/0 PCN NO. XARP YEAR PEN NO. REFERENCE DATA SGEF = 2690.0000 SQ, FT LREF = 1290.3000 INCHES BREF = 1290.3000 INCHES SCALE = .00%0 DATE 06 OCT 75

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TABULATED SOURCE DATA, MSFC THT 622 (1A125)

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MSFC THT 622 (IA125) LAUNCH VEHICLE, 740TS

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TABULATED SOURCE CATA, MSFC TWT 622 (1A125) DATE 56 OCT 75 MSFC THT 622 (12125) LAUNCH VEHICLE, TWOTS

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> ELV-11 PARAMETRIC DATA 20.000 .000 .000 FLV-02 ELV-04 976.006.3 IN. XT .0000 IN. YT 400.0000 IN. ZT REFERENCE DATA 2690.0000 SQ FT 1290.3000 INCHES 1290.3000 INCHES

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PAGE 179	(RIVI29) (29 JUL 75 )
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MSFC THT 622 (1A125)	HSFC THT B22 (1A125) LAUNCH VEHICLE, 7%075
TABULATED SOURCE DATA, MSFC THT 622 (1A125)	HSFC THT 622 (1A125)
DATE 06 OCT 75	

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4.959	-6.620	96100.	00202	.24280	04470	.05360	12000
4.959	-4.530	. 90193	00199	.23870	04570	. 25320	12000
4.959	-2.470	.00193	00199	. 23460	04650	. 05340	12000
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PAGE 183 (RIN(30) (29 JUL 75 MSFC TWT 622 (1A:25) LAUNCH YEHICLE, THOTS-PLUME TABULATED SOURCE DATA, MSFC TWT 522 (18125) DATE 06 OCT 75

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TABULATED SOURCE DATA, MSFC THT 622 (1A125)

MSFC THT 622 (1A)25) LAUNCH VEHICLE, 74015+PLUME

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e)	DATE 35 OCT 75			TA P	TABULATED SOURCE DATA.		MSFC 147 522 . 14125	. ¥ i 32			30¥d	() () ()
				¥	MSFC THT 622 (14)25) LAJAKH VEHICLE, 74015+PLUME	141251 LAJ	MCH VEHICLE.	7-015+PLUM	W	(B:N:35)	32) (29 끘	Š.
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PAGE	3 8 °	C DATA	ELV-1A															
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DATE 06 OCT 75			SAEF LREF BREF SCALE															

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-9! 30Va (41N134) ( 29 JE 15 TABLEATED SOURCE DATA, MSFC THT 522 (TA125) MSFG THT 622 (TAI25 LAUNCH YEM!CLE, 740T DAYE 35 007 75

REFERENCE DATA

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PARAMETR'C DATA

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TABULATED SOURCE DATA, MSFC TWT 622 (14125) DATE 06 OCT 75

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(RINI35) (29 JUL 75

MSFC THT 622 (1A125) LAUNCH VEHICLE, 740T

ELV-1L = PARAMETRIC DATA 20.09 .000 ALPHA . ELV-OL . ELV-OR . 976.0000 IN. X .0000 IN. Y Z .01 0000 100 P . . . de de la companya de REFERENCE DATA 2690.0000 SQ. FT 1290.3000 !NCHES 1290.3000 INCHES .0040 SREF . LREF . BREF . SCALE .

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TABULATED SOURCE DATA, MSFC TAT 622 'A125' 3 8 9

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MSFC THT 622 (TA125) LAUNCH VEHICLE, THOT+PLUME

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TABULATED SOURCE DATA, MSFC THT 622 (1A125)

DATE 06 OCT 75

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₹ \$2 \$3 PARAMETRIC DATA (RIN137) MSFC THT 622 (14125) LAUNCH VEHICLE, 740T+PLUME REFERENCE DATA

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TABULATED SOUPCE DATA, MSFC TWT 522 (1A125) 24 TOO 90 3 AND

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(P;N;39) ( 29 JUL 75 ) MSFC THT 622 (18125) LALNOH VEHICLE, 740T+PLUME PEFERENCE DATA

ELV-11 • PARAMETRIC DATA 20.000 .000 .000 ALPHA . ELV-OL . ELV-OR .

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GRADIENT INTERVAL - -5.00/ 5.00 RUN NO. 605/ 0 RN/L # 5.04

SREF = 2690,000 SQ FT LREF = 1290,3000 NO-65 BREF = 1290,3000 NO-65 SOALE = 100-0

AL PHA	20.54000	20 62000	20.61000	20.50003	20.59000	20.59000	20.59000	20.60000	20.61000	20.62000	20.54000	20.60000	00000
ELV-9L	16779	15840	- 15030	14300	13610	C812	13769	1.147.0	+.15500	16820	18090	14070	000-
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ď	JA 65	DATA	ELV-1L = ELV-1R =															
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			BETA ELV-OL ELV-OR	00 2 700	£1 '-0'.	03,40	058c0	07580	09650	10970	13489	:5480	19650	23990	28230	32480	13860	
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TABULATED SOURCE DATA.	MSFC THT 622 (1A125) LAUNCH VEHICLE, 740T+PLUME		976.0000 IN. XT .0000 IN. YT 400.0000 IN. ZT	RN/L .	CNBF	00026	00036	00056	00056	00042	000001	5,000.	.00082	.00388	16000.	.00062	. 53029	00000
TABULA	¥.		976.00	0 /108	ALPHA	10.580	12.550	14.620	16.700	18.779	20.850	22.910	25.300	27.113	29.230	31.210	20.870	TIMESTACE
		REFERENCE DATA	2690,0000 SQ. FT XMBP 1290,3000 INCHES YMBP 1290,3000 INCHES ZMRP .CO+C	Per KO.	<b>¥</b> CH	1,450	4.450	1,450	4, 453	COT.	4.450	COST. T	) 1 1	1 T	1 E	4 453	£53	
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Çi Gi PAGE PRINING C 29 JUL ELV-11 = PARAMETRIC DATA 000. 667A - ELV-OL - ELV-OR -5.04 GRADIENT INTERVAL = -5.007 5.00 MSFC THT 622 (IA125) LAUNCH VEHICLE, THOTS TABULATED SOURCE DATA, MSFC THT 622 (34(25) 49.000. 49.000. 69.000. 69.000. 69.000. 69.000. 7.0000. 7.0000. 7.0000. 7.0000. 976.0000 'N' XT Y %! 0000. 75 %! 0000.009 RN/! ALPHA 10 740 12.760 14.880 19.30 21. 803/0 . . . £ ₹ REFERENCE DATA 2690,0000 54 F7 (290 3000 (NCHES (290 3000 (NCHES DATE 36 30T 75 SKEF = S LREF = BREF = SCALE =

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TAPULATED SOURCE DATA, MSFC TWT 622 (TA125)	
DATE 06 OCT 75	

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		÷	4.450	10.750	.00251	00259	.21330	05370	07350	.00000		
		÷	4.450	12.760	.00251	00259	.21190	05430	10680	00000		
		ý	4,450	14.890	.00245	00252	.21330	05590	14490	.00000		
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PAGE 191

DATE 06	06 OCT 73		TABULA	TABULATED SOUPCE	ATA, MSF	75FC TWT 382 (11125	11125			PACE	56
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			MSFC 'WT	WT 622	A1251 LAUM	A1251 LAUNCH VEMICLE, 7707415+213	17074:5+21	E	(RINZEI)	27 MOU 61 ) (15	25 X
	REFERENCE DATA	<b>*</b>							PARAMETRIC	DATA	
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(RIN221) (19 JUN 75

MSFC THT 522 (1A125 LAUNCH VEHICLE, 77074TS+Z13

PARAMETRIC DATA

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-5.00/ 5.00 GRADIENT INTERVAL -167 0 RN/L = 6.27 ₹ 8 2690.00C0 SQ. FT 474.8000 INCHES 936.7000 INCHES .00% SAEF LREF -BAEF -SCALE -

= 1307,0009 fw, x0 = 105,0009 fw, y0 = 289,0000 fw, Z0

REFERENCE DATA

0714 00180 00180 00180 00180 00180 00180 00180 00180 C684 - 01730 - 01930 - 0060 - 0060 - 00730 - 01930 - 00100 0.24 0.0880 0.0880 0.0880 0.0880 0.0880 0.0880 1.960 1.960 4.200 6.510 -273. ALPHA -7 020 -4.740 -2.5:0 

-5.00/ 5.00 GRADIENT INTERVAL RN/L . 6.52 0 /8: 

CTM . 00630 . 00630 . 00530 . 0130 . 01690 . 02810 . 02650 . 0110 ALPHA -7.060 -9.750 -8.750 -8.750 -8.050 -8.310 -8.510 -8.510 -8.510 -8.510 

-5.00/ 3.00 GRADIENT INTERVAL RN/L . 6.62 19/0 ₹ 80.

CB4 - .01760 - .0100 - .00490 .002:0 .01000 .01810 .02550 .00250 CNA - 09970 - 05450 - 03050 . 05030 . 09180 12910 . 01160 ALPHA -7.080 -2.450 -2.450 -1.180 6.690 6.690 GRADIENT 

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TABULATED SOJPCE DATA, MSFC THT 522 (1A125) 24 TE 06 001 75

. 22410 LAUNCH VEH'CLE, 7707+75+2 3 MSFC TAT 522 \*\*\* 25

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• 04.6a0 YLYS S.C. SHYGYO ξ. 857A ... SP0'... R 222 7 7 7. 0 0 0 0 0 0 0 0 0 0 0 0 0 . . . AEFERENCE SATA 2950 0000 50 FT 474 8000 NOMES 935 7000 NOMES 0040 

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-8 GC CRADIENT INTERVAL ω. 1,7; £ ₹

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. HSFC TWT 622 (1A125)	
TABULATED SOURCE DATA, MSF	
DATE D6 UCT 75	

				MSFC THE 622 (1A125) LAUNCH VEHICLE, 77074TS+213		(R1N22)	(RIN221) ( 19 JUN 75	. 25
	REFERENCE DATA	<b>∠</b>			PAR	PARAMETRIC DATA	DATA	
Seer .	 SCALE = .0900.000 SO FT XHRP LREF = .936.7000 INCHES YHRP DREF = .936.7000 INCHES ZHRP SCALE = .0000.000 SO FT	XHRP YHRP ZHRP	• • •	XMRP = 1307.0000 IN. XO BETA = YMRP = 105.0000 IN. YO SPOILR = ZMRP = ZMR.0000 IN. ZO		.000 20.333	.000 ORBINC =	00c·

GRADIENT INTERVAL = -5.00/ 5.00		0121000420								
GRADIENT	3	06460	02620	.01420	. 05720	.09573	.12810	.15520	. 05730	.01658
RN/L • 5.62	ALPHA	-7.340	-4.940	-2.530	170	5.∶80	6,4,7	6.803	133	GRADIENT
		1.459								J
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		PEFERENCE DATA	<b>≤</b>			_	PARAMETRIC DATA	DATA	
395	ü	2690.0000 SQ. FT	ddex	•	1307.0000 IN. XO	B£1A •	.000	.000 ORBINC .	000
LAEF	•	474.8000 INCHES	YMRP	•	INCHES YMRP . '05.0000 IN. YO	SPOILR . 40.000	40.000	•	
SPET	•	936.7000 INCHES	2MRP	•	5 ZMRP - 288.0000 IN. ZO				
SCALE									

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(R1N222)

MSFC THT 622 (!A125) LAUNCH VEHICLE, 7707415+213

5.00										
-5.00/	II.	00890	00300	. 00250	.00870	.01420	.02070	.02630	. 308%0	10000
•										
INTERVAL = -5.00/	Z-BA	02580	02050	01520	00930	00330	.00180	01800.	00950	
GRADIENT	S.	13450	10660	07390	04680	01570	.01230	.04500	04870	13610
6.05	ALPHA	-6.910	-4.720	-2.480	290	1.910	4.170	6.390	290	TUDIONO
D RN/L	MACH	.798	.798	.798	.798	86/.	. 798	. 798	. 798	9
39/ 0										
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80 561 30¥d 27 43 8! ' • 0%166C PARAMETRIC DATA . 622Nig 996 40 000 857A • SPO'\_R • GRADIENT !NTERVAL - -5.00/ 5.00 #5F3 747 628 14 25 LAUNCH VEHICLE, 7797475+213 TABULATED SOUNCE DATA, "SEC THT 622 "TALZS TM3:CAGO Pa/L = 6.39 3N/L . 5 6! 名さけ 2000 C000 E8 36.0 37, ğ j j . ₹ ₹ ر ا ا REFERENCE DATA 2690,0000 SQ FT 474 9000 (MCHES 936 7000 (MCHES 0040 DATE 96 9CT 75

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-5 23 CANDIENT INTERVAL 0.1910 0.1910 0.1910 0.1910 0.1910 0.1910 0.1910 0.1910 0.1910 0.1910 0.1910 0.1910 0.1910 0.1910 ALPHA -7.140 -1.810 -2.490 -2.200 2.000 4.350 6.650 -220 6.650 9N/L = 5.70 33333333 35/3

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PAGE 197	1 37 NW 91 ) (553NF
	(91N222
TABULATED SOURCE DATA, MSFC THT 622 (1A125)	MSFC THT 622 (TA125) LAUNCH VEHICLE, 77074TS+213

PAGE 197

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PARAMETRIC DATA	000.	40.000			
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≤	A MAP	Y MAD	248P		
REFERENCE DATA	2690.00J0 SQ. FT	474.8000 INCHES	NCHES	0400.	
		4		•	
	SPEF	LREF	BREF	SCALE	

PEN NO.	33/ 0	O RN/L	<b>6</b> .73	GRADIENT	GRADIENT INTERVAL .	-5.00/	5.00
		MACH	ALPHA	CNE	765 C84	Z Z	
		1.100	-7.160	11830	02970	00800	
		1.100	-4.820	07910	01330	30220	
		1.:00	-2.480	04160	00550	.00310	
		1.190	200	00269	.00050	.00890	
		1.100	2 070	.03690	.02750	.01480	
		1.100	4.360	.07680	.01520	.91933	
		1.100	6.710	.11650	. 02290	. 02240	
		1.100	200	00170	.00030	01603.	
		8	GRAD I ENT	.01703	.003!!	.00239	
RCN NO.	- - - -	O RRVL =	<b>6</b> .79	GRADIENT INTERVAL	INTERVAL .	-5.00/	5.00
	-	HACH	L PHA	CNE	<b></b>	T.	
		1.151	-7.260	11250	01980	00730	
		1.151	-4.883	07170	012:0	00210	
		1.15!	-2.480	02890	00440	.00390	
		1.151	160	.01640	.00370	.01030	
	-	1.151	2.130	.05930	.91193	.01470	
		1.151	011.5	. 09760	.01920	.01900	
		1.15!	6.760	.13250	. 02590	. 02300	
		. 15!	160	.0:860	. ၁୯५२०	.01030	
		8	GRADIENT	.01835	.00339	. 00228	

£ 80.	35/0	0	ž		6.83	GRADIENT	INTERVAL	GRADIENT INTERVAL5.00/	5.0
		MACH		ALPHA	¥	CNE	76	CTE	
		1.25	٥.	-7.	7.290	09150	0:670	00380	
		. 256	٥.	*	-4.880	~. 04380	00760	.00020	
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		K		i	130	.04730	.00930	.01020	
		1.252	٥.	'n	2.160	C++80.	.01620	.01500	
		. 255	•	j	1,470	.11750	0.550.	. 51960	
		1.252		0	6.810	. 14710	. 02820	.02330	
		1.252		130	30	.04860	.00960	.01030	
			3	201	ĻN.	.01733	.00322	.00206	

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39∀d	27 NO 61 ) (552N17)	PARAMETRIC DATA	. 000 O4814C •												(F1:1223) (19 JUN 75	PARAMETRIC DATA	.000 ORBING = 20.000
	15+213	u	SPOILR .	-5.00/ 5.00	OTM	00580	0039^	0009-	. 00300	.00830	.01340	.01752	.00300	39,03.	15+2:3	u	SPOILR .
MSFC THT 522 (1A125)	124040H VEHICLE, 7707475+213			GRADIENT INTERVAL .	# 60 10	0 7 7 : O : I	00233 -	08000	11991	0:513	C9:50	39193	03860.	1:800.	MSFC TWI 622 (IA125) LAUMOM VEHICLE, 77374TS+213		
				MBICYMD	3	c1693	03753	05+30	( ) ( )	08730	. 933	; ;	C C	0:50	i3∧ HONOYT		
TABJLATTD SOUPCE DATA,	52.V, 229		8 9 8 2 2 2	م√ر. • 6.5≥	ALPHA.	-7 330	14 930	253 G-	; ;	со :- пи	1.4.63	er er	G .	GRAD: ENT	622 (1A125)		7.7.7 7.5.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7
TABJLATTD 9	₩£FC 74T 622		1307,0000 'N. 105,0000 'N. 288,0000 (N.	. /01	T O T	- 180	1.453	53	197	CG7.	-	;;; 	 		MSFC TAT		1307.0000 IN. 105.0000 IN 268.0000 IN
				PUN NO.												<b>۲</b>	
25 7.75		REFERENCE DATA	2690 0000 SQ. FT 474 6300 140465 936,7033 140465					•								REFERENCE DATA	2690 0000 SG FT 474-800 1404ES 936 7000 1404ES
24 T 26 00T 75			9866 1986 1986 1986 1986														SPEF .

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TABULATED SOUPCE DATA, MSFC THT 622 (1A125)	
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3) (19 JUN 75	DATA	SABING .																						
(R' 223)	PARAMETRIC DATA	. 000 20 . 000																						
		ALPHA -	5.00											5.00										
5+213		₹ %	-5.00/	71	.00810	.00890	.00950	.01050	.01210.	.01300	04410.	.01030	.00051	-5.00/	u L	.00840	.00840	04600.	.01080	04110.	.01260	.0!379	.01060	6+000.
CLE, 7707419			GRADIENT INTERVAL .	<b>8</b> 8	00260	00120	0,000	.00050	.00250	.00380	.00560	.00070	. 00059	GRADIENT INTERVAL =	<b>8</b>	00210	00060	.00050	.00160	.00330	.00520	.00700	.00163	. 00067
LAUNCH VEHI			GRADIENT	3	01110		04100		01410.	. 32:80	.03060	00900.	.00291	GRADIENT	S	0:080	00150	.00460	02600.	01610.	01820	.03740	01600.	34500.
MSFC TAT 622 "!A1251 LAUNCH VTHICLE, 77074TS+213		7	€.36	9£7A	-6.540	-4.390	-2.230	130	<b>2</b> .020	4.150	6.280	100	CAADIENT	RN/L = 5.57	B€ 7A	-6.540	14.400	-2.230	100	2.030	4.150	6.300	100	GRADIENT
MSFC 14T		1307.0000 IN. XO 105.0000 IN. YO 288.0000 IN. ZC	26/ 0 RN/L	HACH	+06.	<b>₹06</b> .	<b>+06</b>	<b>₹</b> 06.	<b>₹06</b> .	+06	+06	<b>*05</b> .		NE O PE	MACH	766.	198.	766.	466.	766.	.997	766.	766.	
	<u>.</u>	8	RUN NO.											PEN NO.										
	REFERENCE DATA	2690.0000 SO. FT 474.8000 :NCHES 936.7000 :NCHES .0040	Œ					•						Œ.										
		SHEF BREF SCALE																						

.00850 .00890 .01089 .01150 .01260 .01370 .01550 .0140 CBH
-. 00250
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. 00170 CAM - . 01620 - . 00030 - . 00010 . 01770 . 02710 . 03950 . 00680 BETA -6.570 -4.420 -2.250 -.110 2.030 4.1170 6.330 -.110 GRADIENT #ACH 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.

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ABJLATED SOUPCE DATA, MSFC THT 622 (1A)251

PAGE 200

27 MW 91 . R : N223 .

PARAMETRIC DATA MSFC "AT 622 (14125) LAUNCH VEHICLE, 7707475+213

# DN18ac

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0.41 0000 Test 0.50 0000 Test 0.41 0000 0000 Test 0.41 0000 0000 Test

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2690,0000 SQ FT 474 8000 NO+65 936 700 NO+65 0940

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REFERENCE DATA

-5.007 5.00 SPAD'ENT INTERVAL . 5.70 mg// = 5.70

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DATE 06 OCT 75		ट्	BULATED	SOURCE	TABULATED SOURCE DATA,	HSFC THT (	HSFC THT 622 (1A125)				PAGE	. 201
		•	MSFC TH	1 622	CA133	LAUNCH VEH)	MSFC THT 622 (IA125) LAUNCH VEHICLE, 77074TS+213	15+213		(RINZZ4)	27 MOL 81 0 C+	ls.
REFERENCE DATA									_	PARAMETRIC DATA	DATA	
SREF = 2690 0000 50, FT X1 LREF = 474,8300 14C4FS Y1 BREF = 936 7000 14C4ES Z1 SCALE = .0040	XHRP ZHRP	<u>m</u>	1307.0000 135.0000 288.0003	$\vec{z} \ \vec{z} \ \vec{z}$	X X X X X X X X X X X X X X X X X X X			₹ ਲੋ	ALPHA .	.000	- 0481MC	000 .
RUN	PEN MO.	98/ 0		FN/L .	ص چ	GRACIENT	GRADIENT INTERVAL	-5.00/	5.00			
			HACH	*	BETA	3	<b>76</b>	CTE				
			. 808.	<b>Y</b> 1	-6.450	04670	00930	00570				
			-808	۲	-2.200	04340	06890	.00820				
			.832	•	001	04400	-, 30890	.00890				
			.B02		2.910	04120	00829	. 00970				
			SCB .	, ,	110	-,03570	00730	.01040				
			. 80g	•	6.223	03680	00620	. 01600				
			u 2	. GRAC	GRADIENT	000000.	. 00023	56000.				
				,								
NO.	PCN NO.	ģ	0	# 1/4 1/4	6.35	GRADIENT	GRADIENT INTERVAL -	-5.00/	S. 80			
			MACH	86	BE TA	S	78 C87	3,10				
			<b>8</b> 38	Ψ,	-5.510	0.4440	00900	.00770				
			.898	1	-4.360	03900	00800	.00830				
			86 86 86	'n	-2 230	03120	00650	.00870				
			. 899	•	100	0.820	00570	.00960				
			. 899	•••	2.020	02130	07400 -	.01050				
			868	, ,	4.150	01560	00320	0,10.				
				,	00.0	00000	00000	. בלים				
			2	8	CRADIENT	. 90267	.00055	. 00041				
<b>3</b>	RUN NO.	31,	0	- 1/NE	5.65	GRADIENT	GRADIENT INTERVAL .	-5.00/	5.00			
			HYCH	85	BETA	Š	<b>78</b>	T I				
			1.049	۳,	-5.610	03940	00650	.00670				
			1.049	1	-4,430	03300	00530	.00580				
			1,049	Ÿ	-2.250	02500	00390	.00820				
			670.	•	110	01790	00250	. 50920				
			1.049		2.010	00820	00090	.01020				
			1.049	,	4,150	.00370	.00120	01140				
			0,0,0		6. ¥0	03450	.00320	.01350				
			0. 1 1. 0. 1	. 8	011	0.840	00263	0.000				
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\*ABLLATED SOURCE DATA, MSFC THT 622 ('A125) CATE 06 001 7.

PAGE 222

SE NO 61 -

MSFC THT 622 (14'25' LAUGH VEHICLE, 77074TS-213

900. ORBING # PARAMETRIC DATA 0000 ALPUA . 1307 0000 14, X0 105 0000 14, X0 289 0000 14, Z0 agui. HEFERENCE DATA 546F \* 2690 0000 50, FT LACF \* 474 8003 WOMES 646F \* 936 7003 WOMES 50ALE \* 035 700

-5.007 5.00 GRADIENT INTERVAL RN/L . 6.72 35 2

5.30 -5 00/ INTEDVAL GRADIENT RN/L = 5.78 397 . 6× ×5×

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			BETA -	٠ ٢		5.00										
	÷213		136	8		-5.00/	CTR	.00750	00160	.00430	.01130	.01810	04420.	.02980	.01140	96200.
~	415							1	•							
25 (1A125	CLE. 7707					GRADIENT INTERVAL = -5.00/	<b>3</b>	01430	00850	50320	.00820	08700.	.01330	01610.	04200.	. 002¥5
MSFC THT 622 (1A125)	MSFC THT B22 (IA125) LAUNCH VEHICLE, 7707455213					CRADIENT	3	07350	04320	01460	01540	04040.	.07430	. 10%20	.01629	.01325
IRCE DATA,	12 (1A125)		0x	2	02	5.97	AL PHA	-6.890	-4.706	-2.470	. 250	1.970	4.210	6.440	250	GRADIENT
TABULATED SOURCE DATA,	15FC THT 62		307.0000 IN. XO	105.0000 IN.	288,0000 IN.	1/ 1 RN/L .	MACH	. 800	.800	. 800	.800	.800	.800	.800	.800	8
3	•		130	2	X.	2										
			•	•	•											
		1		4	<b>Q</b>	RUN NO.										
		REFERENCE DATA	2690.0000 SQ. FT	474 . 800C INCHES	936.7000 INCHES .0040											
		EFER	990	900	7000											
8CT 730		Œ	2690.0	B. Z.	6. <b>38.</b> 6.											

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PLN NO.

PARAMETRIC DATA

(RIN225) (19 JUN 75 )

PAGE 203

DATE 06 OCT 75

		¥ V		¥	<b>₹</b>	3	3	CTE	
		.902		.7	000	05650	01310	00600	
		-905		*	-4.720	02940	00610	00060	
		- 902		'n	180	06700.	06000.	00200	
		. 902		·	270	.0~530	01800.	.01080	
		505			096	04180	.01500	.01650	
		. 902		ż	210	01011.	. 52030	. 02170	
		.902		Ġ	510	. 12800	.02320	.02720	
		. 932		ı.	270	.04720	.00850	.01070	
			3	GRADIENT	ENT	.01586	.00300	.00252	
PUN NO.	3		PN/L	•	<b>6</b> .78	GRAD! ENT	INTERVAL .	-5.00/	5.00
		MACH		*	AL PHA	ş	<b>8</b>	CTE	
		8		7	0.50	07950	61499	00310	
		.995		ŧ	750	04650	00830	.00280	
		86		'n	-2.440	00800	00130	.00820	
		86		ı	220	.03210	.00620	.01370	
		566		من	070	07170.	.01350	.01960	
		86		3	652.3	01:11.	.02160	.02310	
		599		Ġ	6.600	. 14280	. 02780	.02700	
		86		·	219	.03420	. 00660	.01360	
			e	GRADIENT	181	97.50	.00332	.00226	

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(R: N225) ( 19 JUN 75 J.S¥a C48:NC # PARAMETPIC DATA 000. # 4.38 SP0 . P = 5 30 5.30 GRADIENT INTERVAL = -5.007 5 00 0.000 000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0. -5.00/ -5.007 MSFC "4" 622 "14'26" LAUNCH VEHICLE, 7707+15-213 TABJEATED SOURCE DATA, MSFC THT 522 (TA125) JAVABINI INTERNAL 2000 - - - 0000 - - - 0000 - - - 0000 - - 0000 - - 0000 - 0.4000 0.4500 0. SE 9 → 7/\$ RN/1 . 8.48 PN/L = 5.69 0 17 C 1307 0000 13 105 0000 17 105 0000 18 - のののののののののの T プライナファイナイ Q ロ ロ い O C C C C C C į (1 0 7, 0 ò S 3 5 × 3 ₹ 8 REFERENCE DATA 2690 0000 SQ FT 474 8000 NOMES 936 770 NOMES 24.1 36 36 314C \* 1345 \* 1345 1345

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PAGE 205 ABJUATEL SOUPCE DA'A, HISTO THY 622 (TA125) DATE 36 001 75

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MSFC TAT F32 (IAI26) LAUNCH VEHIGLE, 77074TS+213

25 NOC 61 ) . 1522N 18 PARAMETRIC DATA REFERENCE DATA

ON BHO 800 BE1A ... • 1807 0000 15, XO • 105,0000 16, YO • RES 0000 16, ZO 2690.0000 52 FT 474 6000 40465 936.7000 140465 SCALE .

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(R:N225)	PARAMETRIC DATA	000.																													
		ALPHA - SPOILR -	5.00										5.00										5.00								
5+213		A &	-5.00/	H L	.00730	00880	0.000	.01230	.01330	.01510	.0: 30	.00052	-5.00/	¥	.00620	. 90720	.00880	.01050	5-10.	.01320	מפנים.	.00067	-5.00/	7 7	.00980	01040	.01190	.01340	06+10	01570	
LAUNCH VEHICLE, 7707475+213			INTERVAL .	MG:	.00290	.03280	08500	.00300	.00360	.00470	.00250	. 00008	INTERVAL =	<b>MB</b> 0	.00590	. 00690	.00770	.00830	. 00980	.01040	05:10.	.00042	INTERVAL .	785	.00240	.03250	.00470	. 00590	.00810	01010	
TAUNOH VEHS			GRADIENT INTERVAL	T C	06810.	. 22020	. 02120 	006:0.	.02130	. 62480	01710.	00000	GRADIENT INTERVAL	3	.03210	03850.	.04380	0:540.	. 25303	. 25553	058CO.	56100.	GRADIENT INTERVAL	Ä	.01250	01910.	. 32553	.03080	04120	.05330	
MSFC TWT 622 (1A125)		in. x0 in. x0 in. 20	L = 5.96	BETA	-6.450	-4.330	-2.250	200 Z	4.100	5.2:0	+.1.5	CAAD'ENT	L = 6.28	BETA	-6.690	-4.530	-2.270	119	2.050	4.250		CNGICARD	L • 6.42	B£ TA	-6.540	-4.400	-2.220	110	2.030	4.153	
MSFC THE		1307.0000 1 105.0000 1 288.0000 2	147 0 PN/L	MACH	•68.	40A.	10B.	 	<b>.</b> 9€	+08.	.80¢		13/ 0 RN/L	MACH	- 305	. 902	- 305	902	- <del>9</del> 02	506.	226.		11/ 0 PN/L	HACH	.985	.985	985	985	.985	.985	
		XIMED .	RUN NO.										RUN NO.										RUN NO.								
	REFERENCE DATA	SO. FT X	٤										\$										\$								
	REFER	2690.00013 474.80003 936.7000																													
		SREF . SALE . SCALE .																													

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PACE 207 (RIN226) ( 19 JUN 75 MSFC THT 622 (IAI25) LAUNCH VEHICLE, 7707475-213 ŝ

ORBINC PARAMETRIC DATA 96. 96. ALPHA -**9** 2 2 żżż 1307.0000 105.2000 288.0000 REFERENCE DATA 2690.0000 SQ. FT +74.8000 INCHES 936.7000 INCHES .00%9 SCALE .

.000

Per 36	<u>è</u>	_	- 1/E	6.53	GRADIENT	INTERVAL .	-2.00	5.00
		MACH	•	BETA	3	<b>3</b> 5	CTH	
		. O.	i	-6.580	01000.	.00070	.01000	
		10.	•	-4,400	.00850	.00210	61110.	
		1.0	•	-2.230	07710.	.00380	.01290	
		*		1:0	.02580	.00560	.01450	
		1.044		≥.030	.03710	.02790	.01580	
		1.04		4.:70	0.840.	06600.	.01720	
		1.0.1		6.330	05650.	.01240	.01890	
		1.0.1		110	. ৫2520	0.00540	.01450	
			<b>8</b> 8	GRADIENT	19400.	26000.	.0007	
₹ 80.	ò	- -	# 	6.62	GRACIENT	GRADIENT INTERVAL =	-5.00/	5.00

.01120 .01120 .01120 .01540 .01540 .01550 .01770 .01910 CBM .00080 .00270 .00720 .00720 .01180 .01180 CN4 -.00050 .01010 .03330 .04450 .05450 .05140 .03390 961A -6.630 -2.460 -2.210 -110 -110 6.360 6.360 6.360 6.360 

5.00 -5.00/ 01220 01220 01320 01320 01430 01530 01530 01530 CBM .00:80 .00350 .00350 .00810 .00810 .01340 .01340 .01840 .01840 .0084 INTERVAL GRADIENT CNM4 .00430 .01390 .02450 .03740 .04950 .04950 .07890 .03910 BETA -6.670 -2.280 -7.200 -7.0 PN/L = 5.63 0 **8** PEN NO.

DATE 06 OCT 75

902 30¥a	(RIN225) ( 19 JUN 75
	(R1N225)
TABULATED SOURCE DATA, MSFC THT 622 (!A125)	MSFC TWT 622 (!A125) LAUMCH VEHICLE, 7707455-213
DATE 06 OCT 75	

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ואושכנט ו	DATA ORBINC -	
22141	PARAMETRIC DATA .000 ORBIN	
15, 77074*5*213	ALPHA = SPOILR =	
MSFC TWT 622 (!A125) LAUNCH VEH!CLE, 7707475+213	й. 7. х 20 20	
MSFC TWT	1307.0000 IN. XO 105.0000 IN. YO 288.0000 IN. ZO	
	XHRP	
	REFERENCE DATA  SREF = 2690.0000 SQ. FT XMRP = 1307.0000 IN. XO LREF = 474.8000 INCHES YMRP = 105.0000 IN. YO BREF = 936.7000 INCHES ZMRP = 298.0000 IN. ZO SCALE = .0040	
	SPEF	

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■ ORBINC																						
000.																						
ALPHA SPO!LR	5.33											. 90 . 90		_		_		_	_	_		<b>~</b>
4 %	-5.00/	J.	.01220	06110.	.01:30	65110	.01:63	.0110	05010.	.019:0	00007	-5.00	T T	00600.	. ၁၁၉၆၀	.00710	. ეინნი	.00330	. 20240	.00:97	.03520	0003
	GRADIENT INTERVAL -	7. 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	.00550	.00790	06600.	0.840	01410	.91560	.01720	.3,250	06000.	GRADIENT INTERVAL .	<b>78</b>	06760.	. 20950	.01030	. 91180	.01180	.0120	.01250	.01180	05000.
	GRADIENT	3	.02290	.03620	.04620	.06050	.06970	.078+0	06780.	.05200	<b>₹</b> 6₹20°	GRADIENT	S.	.03690	04940.	. 05130	.06100	.06219	.06530	. 05900	.06140	. 00222
IN. X0 IN. 70 IN. 20	RN/L . 6.66	B£1A	-6.690	-4.500	-2.270	110	2.050	4.250	6.453	103	GRAD1ENT	RN/L . 6.52	BETA	-6.710	-4.500	-2.280	100	€.090	4.280	6.490	100	GRADIENT
1307.0000 IN. 105.0000 IN. 298.0000 IN.	12/ 0 RN/	HACE	1.253	1.253	1.253	1.253	1.253	1.253	1.253	1.253		43/ 0 RN/	HACH	1,459	1.459	1.459	1.459	624.1	459	1.459	1.459	
XMRP	RUN NO.											PUN NO.										
2690.0000 SQ. FT 474.8000 INCHES 936.7000 INCHES .0040																						
2690.00 474.80 1936.71																						

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